



## BOARD OF SUPERVISORS AGENDA ITEM REPORT (BOSAIR)

\*All fields are required. Enter N/A if not applicable. For number fields, enter 0 if not applicable.\*

Record Number: PO FC PO2600002611

**Award Type:** Contract

**Is a Board Meeting Date Requested?** Yes

**Requested Board Meeting Date:** 02/17/2026

<b>Signature Only:</b>	NO
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**Procurement Director Award / Delegated Award:**

- N/A

**Supplier / Customer / Grantor / Subrecipient:** Solis Engineering Co., LLC (Headquarters: Tucson, AZ)

**Project Title / Description:** Design Engineering Services: Drexel to Valencia East Bank Restoration

**Purpose:** Award: Contract No. PO2600002611. This award of contract is recommended to the highest ranking qualified consultant in the amount of \$1,415,862.75 for a contract term from 02/17/26 to 08/31/27 for the design of Drexel to Valencia East Bank Restoration. Administering Department: Regional Flood Control District.

**Procurement Method:** Other

**Insert additional Procurement Method info, if applicable:** Request for Qualifications No. RFQu-2500019507 was conducted in accordance with A.R.S. § 34-603 and Pima County Board of Supervisors Policy D 29.1. Four responsive statements of qualifications were received and evaluated by a 4 member committee using qualifications and experience-based selection criteria. Based upon the evaluation of the respondents' written representations of their qualifications and necessary due diligence, a short list of 3 respondents were invited to interviews. As a result of the combined scoring of the written statements of qualifications and interviews, the highest qualified consultant is recommended for award.

Attachments: Notice of Recommendation for Award, and Contract

**Program Goals/Predicted Outcomes:** This project will cover the design of bank protection and river park amenities for the Santa Cruz River from Drexel to Valencia. As part of this project the District will be designing the bank protection necessary for the City to construct the Drexel Bridge.

**Public Benefit and Impact:** The bank protection and river park when construction will address the current erosion issues in this reach and protect Santa Cruz Lane from further lateral migration of the river. The river park amenities will expand the Loop to Valencia,

TO: BOS, 1/29/26 (1)  
VERSION: 0  
PAGES: 125

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creating additional connectivity for the community. The District's construction of bank protection will prepare the site for the City's Drexel Bridge.

<b>Budget Pillar</b>	<ul style="list-style-type: none"><li>• Critical infrastructure &amp; economic growth</li></ul>
<b>Support of Prosperity Initiative:</b>	<ul style="list-style-type: none"><li>• 2. Improve Quality of Life and Opportunity in High Poverty Areas</li></ul>
<b>Provide information that explains how this activity supports the selected Prosperity Initiatives</b>	Investments in public infrastructure like bank protection keeps communities safe in flood events and minimize future repair needs. Additional segments of the Loop create access to the adjacent communities for recreation and alternative modes of transportation use.
<b>Metrics Available to Measure Performance:</b>	The performance will be measured using the Consultant evaluation process as outlined in BOS Policy D29.1(E) and successful construction of bank protection and river park.

**Retroactive:**

NO

## Contract / Award Information

Record Number: PO FC PO2600002611

<b>Document Type:</b>	PO
<b>Department Code:</b>	FC
<b>Contract Number:</b>	PO2600002611
<b>Commencement Date:</b>	02/17/2026
<b>Termination Date:</b>	08/31/2027
<b>Total Expense Amount:</b>	\$1,415,862.75
<b>Total Revenue Amount:</b>	\$0.00
<b>Funding Source Name(s) Required:</b>	Pima County Regional Flood Control District Tax Levy
<b>Funding from General Fund?</b>	NO
<b>Contract is fully or partially funded with Federal Funds?</b>	NO
<b>Were insurance or indemnity clauses modified?</b>	NO
<b>Vendor is using a Social Security Number?</b>	NO

Department: Procurement

Name: Karrie Hixon

Telephone: 520-724-3542

Add Procurement Department Signatures

Yes

Add GMI Department Signatures

No

**Scott Loomis**

Digitally signed by Scott Loomis  
Date: 2026.01.27 09:09:13 -0700'

Date: \_\_\_\_\_

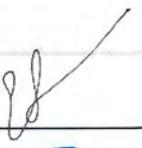
Division Manager/Procurement Officer Signature:

**Bruce D Collins**

Digitally signed by Bruce D Collins  
Date: 2026.01.27 09:46:37 -0700'

Date: \_\_\_\_\_

Procurement Director Signature:

Department Director Signature: 

Date: 1/27/2026

Deputy County Administrator Signature: 

Date: 1/28/2026

County Administrator Signature: 

Date: 1/28/2026



## **NOTICE OF RECOMMENDATION FOR AWARD**

Date of Issue: January 27, 2026

The Pima County Procurement Department hereby issues formal notice to respondents to Solicitation No. RFQu-2500019507, Design Engineering Services: Drexel to Valencia East Bank Restoration, that the following listed respondent will be recommended for award as indicated below. The award action is scheduled to be performed by the Board of Directors, on or after, February 17, 2026.

Award is recommended to the Most Qualified Respondent.

**AWARDEE NAME:**

Solis Engineering Co., LLC

**OTHER RESPONDENT'S NAMES:**

HDR Engineering, Inc.  
Kimley-Horn and Associates, Inc.

***NOTE: Pursuant to A.R.S. §34-603(H), only the names of the firms on the final list may be disclosed.***

Issued by: /s/Karrie Hixon

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Telephone Number: (520) 724-3542

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**This notice is in compliance with Pima County Procurement Code §11.20.010(C).**

Copy to: Pima County SBE via e-mail at [SBE@pima.gov](mailto:SBE@pima.gov)

**Pima County Regional Flood Control District**

**PROJECT:** Design Engineering Services: Drexel to Valencia East Bank Restoration

**CONSULTANT:** Solis Engineering Co., LLC  
5325 S. Civano Boulevard  
Tucson, AZ 85747

**CONTRACT NO.:** PO2600002611

**AMOUNT:** **\$1,415,862.75**

**FUNDING:** Pima County Regional Flood Control District Tax Levy

**CONSULTANT SERVICES CONTRACT**

**1. Parties, Background and Purpose.**

- 1.1. **Parties.** This Contract is entered into between Pima County Regional Flood Control District, a special taxing District under A.R.S. Title 48, hereafter called District, and Solis Engineering Co., LLC, hereinafter called Consultant, and collectively referred to as the Parties.
- 1.2. **Authority.** District requires the services of a Consultant registered in the State of Arizona and qualified to provide Design Engineering Services for The Drexel to Valencia East Bank Restoration (“Project”).
- 1.3. **Solicitation.** District previously issued Solicitation No. RFQu-2500019507 for Design Engineering Services: Drexel to Valencia East Bank Restoration (the Solicitation). Requirements and specifications contained in the Solicitation, all documents included in the Solicitation, and any information and documentation submitted by Consultant in response to the Solicitation, are incorporated into this Contract by reference.
- 1.4. **Consultant's Response.** Consultant's representations in response to District Solicitation No. RFQu-2500019507, Consultant was determined to be the most qualified for this Project.

**2. Term and Extension/Renewal/Changes.**

- 2.1. **Initial Term.** This Contract, as approved by the Board of Directors, commences on February 17, 2026, and terminates on August 31, 2027, unless sooner terminated or further extended pursuant to the provisions of this Contract.
- 2.2. **Extension Options.** District has the option to extend the contract termination date for purposes of project completion. Any modification or extension of the contract termination date must be by formal written amendment executed by the Parties.
3. **Scope of Services.** Consultant agrees to provide Design Engineering Services for the District as described in Exhibit A – Scope of Services (10 pages), an attachment to this contract, and to complete such services within the term and value of this contract as it may be modified in accordance with Section 5. Amendments and changes to the Scope must be approved by the Board of Directors or the Procurement Director before the work under the amendment commences.

#### 4. Definitions.

- 4.1. **Other Direct Costs.** Other Direct Costs are those costs that can be specifically identified within this Contract, are required for performance of the Contract, and are actually incurred. This includes Subcontract or Subconsultant costs; reproduction, copy and printing costs; courier services; and similar costs specifically necessary for this Contract and approved by District.
- 4.2. **Cost Plus Fixed Fee.** The modified Cost Plus Fixed Fee (CPFF) is a compensation method that provides compensation to Consultant for actual costs of Direct Labor, Indirect, and Other Direct Costs incurred up to a “not-to-exceed” amount, plus a fixed Fee amount for the successful performance of the work. The Fee amount may initially be determined as a percentage of the estimated not-to-exceed costs. Once negotiated, the Fee amount becomes fixed and does not vary with actual costs. The Fee may only be in accordance with Section 5.
- 4.3. **Critical Path Method.** The Critical Path Method (CPM) is a way of depicting the sequence of activities in a project, including interdependencies, and containing all activities needed for successful completion of the Work. Delay in the completion of activities on the critical path will extend the completion date.
- 4.4. **Direct Labor Costs.** Direct Labor Costs are the total number of allowable hours worked on the Project by each individual multiplied by the Labor Rate, identified in Exhibit B – Compensation Schedule (82 pages).
- 4.5. **Fee.** Fee is the amount, independent of actual costs, that the Consultant is allowed for assuming risk and to stimulate efficient contract performance. Fee includes compensation to Consultant for both profit and unallowable costs. Efficient cost control will allow Consultant to earn a higher profit margin without adjustment of the fee amount. Conversely, inefficient cost control will result in a lower profit margin.
- 4.6. **Float.** Float is the number of days by which an activity not on the critical path in a CPM network may be delayed before it extends the completion date.
- 4.7. **Labor Rates.** Labor rates are the actual cost of salary paid to employees of Consultant and identified in Exhibit B – Compensation Schedule.
- 4.8. **Not to Exceed Cost.** The Not to Exceed Cost for a task is the sum of the agreed Direct Labor costs, indirect costs, and other reimbursable costs of the task defined in the original Project Baseline. Actual Direct Labor costs may be invoiced based on hours worked, per discipline, per task, or a percent complete by task for the period. Consultant assumes all risk for providing the requested task/deliverables at or below the original estimated cost, unless an equitable adjustment to the scope and/or fee are made by amendment to the Contract. Any costs incurred by Consultant beyond the not-to-exceed amount identified which are not attributable to any change in the project baseline are unallowable. Unallowable costs are compensated through the Consultant’s fixed Fee.
- 4.9. **Indirect Costs.** Indirect costs are at the overhead rate identified in Exhibit B – Compensation Schedule.
- 4.10. **Project Baseline.** The agreed Contract scope of services, total Not-to-Exceed Cost plus Fixed-Fee (CPFF), the allocation thereof among Contract tasks, and the accompanying schedule and expectations/assumptions upon which the scope of services and schedule are based, collectively constitute the Project Baseline.

#### 5. Compensation and Payment.

- 5.1. **Rates; Adjustment.** District will pay Consultant on a modified Not-to-Exceed Cost plus Fixed Fee (CPFF) basis, not to exceed the total amount of this Contract. Cost is comprised of Consultant’s

Direct Labor Costs, Indirect Costs and Other Direct Costs. Consultant's fee will remain fixed and may be adjusted only as provided in Section 5 and Section 6.

- 5.2. Compensation Schedule. Consultant's total CPFF will be allocated among the major tasks contemplated by this Contract in such manner that each major deliverable will have associated with it a not-to-exceed cost, plus a fixed fee amount, incorporated herein as Exhibit B – Compensation Schedule. Consultant may invoice monthly for the actual costs incurred plus a pro-rata portion of the fee amount for each task. Consultant will calculate actual costs based on actual hours spent, to which the agreed overhead rate may be applied, plus Other Direct Costs. Actual Costs may then be represented as percentage of the "not to exceed" cost amount associated with that task on the Consultant's invoice for billing purposes. Calculations and supporting data will be made available to District at any time, upon request. The cumulative payment for the actual costs of any task may not be more than the "not to exceed" cost amount associated with that task. Upon completion of the Scope of Work, (including acceptance by District of all associated deliverables), District will pay the balance of the fixed fee to Consultant.
- 5.3. Hourly Rates. Hourly rates and all other rates included under this Contract will remain fixed throughout the term of the contract. District may consider adjustments to rates in connection with any extensions of the contract term.
- 5.4. Maximum Payment Amount. The total of all payments to Consultant for services provided under this Contract will not exceed \$1,415,862.75.
- 5.5. Timing of Invoices. Unless otherwise agreed, Consultant will submit invoices monthly.
- 5.6. Content of Invoices. All invoices will be accompanied by a narrative description of the work performed during the period covered by the invoice, time accounting information, and an allocation of all direct costs, including reimbursable costs and Subconsultant charges, to the tasks identified in the Scope of Services for which those costs were incurred. The time accounting information should be sufficient to show the workers and hours worked by day for the period covered by the invoice. Subconsultant charges must be supported by appropriate documentation with each separate invoice submitted.
- 5.7. Invoice Adjustments. For the period of record retention required under Section 26, District reserves the right to question any payment made under this Section and to require reimbursement by setoff or otherwise for payments determined to be improper or contrary to the Contract or law.
- 5.8. Additional Services. Consultant will not perform work in excess of the contract amount without prior authorization by an amendment executed by the Parties. Work performed in excess of the contract amount without prior authorization by amendment is at Consultant's own risk. Additional Services identified in Exhibit B – Compensation Schedule, are services within the scope of this Contract but not included within the Tasks identified as of the effective date of this Contract. If ordered, Consultant will invoice additional Services at the rates incorporated into this Contract as in Exhibit B – Compensation Schedule. District may add additional services throughout the term of the Contract by providing notice in writing to Consultant. Hourly billable rates shown in Exhibit B – Compensation Schedule will only be adjusted by written amendment to the Contract. The Parties may add additional required professional classifications or disciplines to Exhibit A – Scope of Services by written amendment at any time.
- 5.9. Invoice Discrepancies. District has 10 calendar days from the date of invoice to notify Consultant of any invoicing discrepancies. District and Consultant will meet to resolve any discrepancies before the invoice is approved or rejected for payment. Subconsultant charges must be supported by appropriate documentation upon request by District.

## 6. Project Baseline and Adjustments.

- 6.1. Schedule. District and Consultant have agreed upon the Project scope and the total Cost Plus Fixed Fee, and will prepare a CPM-based schedule for the performance of the work. The schedule is based on assumptions and expectations agreed upon by the Parties. Schedule estimates for the timeframes associated with outside party activities, i.e. design and other reviews, and/or permits or other clearances do not represent commitments made by either outside agencies or the permit-granting entities of District. This Project Baseline represents a firm commitment by the Parties to complete the work within the schedule and total cost identified in the Baseline, subject to schedule variations by outside parties and other factors beyond the control of the Parties.
- 6.2. Project Baseline Adjustments. Although the Baseline reflects the best estimates and expectations of the Parties at the time of agreement, there is an element of uncertainty associated with the design process that makes the actual schedule and effort required to complete the work difficult or impossible to establish in advance. Unusual citizen input, litigation, regulatory changes, significant delays by utilities or others, unforeseen decisions or commitments by policy makers, or other unanticipated events or factors beyond the control of the Parties that differ materially from the expectations of the Parties may delay or disrupt the schedule and/or require a change in the level of resources or effort. The Project Baseline may be adjusted as follows:
  - 6.2.1. A delay in the work attributable to a failure by District to adhere to its estimates with respect to schedule is an excusable delay for which an adjustment may be made to the schedule. In any such case affecting a task on the critical path, the schedule of the affected task or activity may be extended one day for each day of District -caused delay; provided, however, that if the District -caused delay overlaps a period of delay attributable to any other cause, the extension for District -caused delay is limited to the number of non-overlapped days of District -caused delay.
  - 6.2.2. There is no adjustment for any delay in the work attributable to a failure by Consultant to adhere to its commitments with respect to schedule. In the event of a significant delay attributable to a failure by Consultant to adhere to its schedule expectations, Consultant will provide a recovery plan to District within five days of District's request. For the purposes of this paragraph, a delay arising from or attributable to a necessity for Consultant to make more than two submissions of plans or documents for approval is a failure by Consultant to adhere to its schedule commitments. Consultant's work associated with additional reviews is non-compensable.
  - 6.2.3. A delay in the work attributable to any other cause that differs materially from the expectations of the parties regarding that cause is an excusable delay for which the parties will negotiate an appropriate schedule adjustment. If the period of delay attributable to any cause under this paragraph overlaps a period of delay attributable to any other cause, the adjustment under this paragraph will be made first and the delay attributed to such other cause will be limited to that occurring outside of the overlap.
  - 6.2.4. If any of the causes of delay in subparagraphs 6.2.1 or 6.2.3 above affects a task or activity on the critical path, then the schedule adjustment may include adjustment to the completion date. If the cause does not affect a task or activity on the critical path, then the adjustment will be made from Float and the completion date will not change.
  - 6.2.5. If any of the causes of delay in subparagraphs 6.2.1 or 6.2.3 above results in material provable additional costs to the affected task or tasks as a result of disruption of the schedule, then the parties will negotiate an equitable adjustment to the cost for the affected task or tasks, but not to the fee.
  - 6.2.6. The parties will negotiate an equitable adjustment of cost and fee for any task or tasks for which there is any significant change in the level of effort arising from additional or changed

work requested or directed in writing by District that materially deviates from or adds to the baseline expectations or assumptions of the Parties with respect to the work.

- 6.2.7. If any action, comment, cause, decision, or other event attributable to any third-party results in a change in requirements that differs materially from expectations, then the Parties will negotiate in good faith an equitable adjustment in the cost and fee for the affected task or tasks.
- 6.3 **Completion Date.** Consultant agrees to complete the work by the completion date in the schedule, as it may be adjusted under the preceding provisions of this Section. Costs incurred by Consultant to complete the work after the completion date in the schedule are not reimbursable under this Contract.

## 7. **Reallocation of Funds.**

- 7.1. **Costs.** Given the magnitude and complexity of the scope required by this Contract, the Parties understand that the actual cost to perform specific tasks may vary from the estimates reflected in Exhibit A – Scope of Services and Exhibit B – Compensation Schedule.
- 7.2. **Tasks.** If the actual cost to complete a task is less than the estimated amount for that task, the cost savings realized accrues to District. With the agreement of the Parties, District may reallocate the cost savings to other tasks in Exhibit A – Scope of Services and Exhibit B – Compensation Schedule as follows:
- 7.2.1. **Subtasks.** Reallocation between subtasks in Exhibit A – Scope of Services under any one of the major task categories in Exhibit B – Compensation Schedule may be made between the District's department representative and the Consultant's project manager by written agreement.
- 7.2.2. **Procurement Director.** County's Procurement Director may make a reallocation among the major tasks in Exhibit B – Compensation Schedule by a Contract amendment, provided that the transfer does not increase the total amount of the Contract.
- 7.2.3. **Board of Directors.** The Board of Directors may make any reallocation or adjustment in Exhibit A – Scope of Services or Exhibit B – Compensation Schedule that increases the total contract amount through a Contract Amendment.
- 7.3. **Cost and Fee.** Costs and Fee may not be reallocated from any task on which work has not progressed significantly and which does not include actual or demonstrable savings or reductions in required effort such that the task may be completed for less than the balance of the task remaining after the transfer.
8. **Insurance.** The Insurance Requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract. District in no way warrants that the minimum limits contained herein are sufficient to protect the Consultant from liabilities that arise out of the performance of the work under this Contract.
- 8.1. **Ratings.** Consultant's insurance will be placed with companies licensed in the State of Arizona or hold approved non-admitted status on the Arizona Department of Insurance List of Qualified Unauthorized Insurers. Insurers will have an "A.M. Best" rating of not less than A- VII. District in no way warrants that the above-required minimum insurer rating is sufficient to protect the Consultant from potential insurer insolvency.

8.2. Insurance Coverages and Limits.

8.2.1. Minimum Scope and Limits of Insurance: Consultant will procure and maintain, until all of their obligations have been discharged, coverage with limits of liability not less than those stated below.

8.2.1.1. Commercial General Liability (CGL) – Occurrence Form with limits of \$2,000,000 Each Occurrence and \$2,000,000 General Aggregate. Policy will include bodily injury, property damage, and broad form contractual liability coverage.

8.2.1.2. Business Automobile Liability – Bodily Injury and Property Damage for any owned, hired, and/or non-owned automobiles used in the performance of this Contract with a Combined Single Limit (CSL) of \$1,000,000.

8.2.1.3. Workers' Compensation and Employers' Liability - Statutory requirements and benefits. Coverage is compulsory for employers of one or more employees. Employer's Liability - \$1,000,000.

Note: The Workers' Compensation requirement will not apply to a Consultant that is exempt under A.R.S. § 23-901, and when such Consultant executes the appropriate District Sole Proprietor or Independent Consultant waiver form.

8.2.1.4. Professional Liability (Errors and Omissions) Insurance – This insurance is required when soliciting work from licensed professionals. The policy limits will be not less than \$2,000,000 Each Claim and \$2,000,000 Annual Aggregate. The policy will cover professional misconduct or negligent acts for those positions defined in the Scope of Work of this contract.

8.2.1.5. Claims-Made Coverage. In the event that the Professional Liability insurance required by this Contract is written on a claims-made basis, Consultant warrants that any retroactive date under the policy will precede the effective date of this Contract and, either continuous coverage will be maintained, or an extended discovery period will be exercised, for a period of three years beginning at the time work under this Contract is completed.

8.3. Additional Insurance Requirements:

The policies will include, or be endorsed to include, as required by this written agreement, the following provisions:

8.3.1. Additional Insured: The General Liability and Business Automobile Liability Policies will each be endorsed to include District, its departments, districts, boards, commissions, officers, officials, agents, and employees as additional insured's with respect to liability arising out of the activities performed by or on behalf of Consultant.

8.3.2. Subrogation: The General Liability, Business Automobile Liability and Workers' Compensation Policies will each contain a waiver of subrogation endorsement in favor of District, and its departments, districts, boards, commissions, officers, officials, agents, and employees for losses arising from work performed by or on behalf of Consultant.

8.3.3. Primary Insurance: Consultant's policies will stipulate that the insurance afforded Consultant will be primary and that any insurance carried by the Department, its agents, officials, employees or District will be excess and not contributory insurance.

8.3.4. Insurance provided by Consultant will not limit Consultant's liability assumed under the indemnification provisions of this Contract.

8.4. Notice of Cancellation:

Each required Insurance policy must provide, and certificates specify, that District will receive not less than 30 days advance written notice of any policy cancellation, except 10-days prior notice is sufficient when the cancellation is for non-payments of a premium. Notice shall include the District project or contract number and project description.

8.5. Verification of Coverage:

Consultant will furnish District with certificates of insurance as required by this Contract. An authorized representative of the insurer will sign the certificates.

8.5.1. All certificates and endorsements, as required by this written agreement, are to be received and approved by District before work commences. Each insurance policy required by this Contract must be in effect at, or prior to, commencement of work under this Contract. Failure to maintain the insurance coverages or policies as required by this Contract, or to provide evidence of renewal, is a material breach of contract.

8.5.2. All certificates required by this Contract will be sent directly to the Department. District project or contract number and project description will be noted on the certificate of insurance. District reserves the right to require complete copies of all insurance policies required by this Contract at any time.

8.6 Approval and Modifications:

The Pima County Risk Manager may modify the Insurance Requirements at any point during the Term of this Contract. This can be done administratively, with written notice from the Risk Manager and does not require a formal Contract amendment. Neither the District's failure to obtain a required insurance certificate or endorsement, the District's failure to object to a non-complying insurance certificate or endorsement, nor the District's receipt of any other information from the Consultant, its insurance broker(s) and/or insurer(s), constitutes a waiver of any of the Insurance Requirements.

**9. Indemnification.**

9.1. To the fullest extent permitted by law, Consultant will defend, indemnify, and hold harmless District and any related taxing district, and the officials and employees of each of them (collectively, "Indemnitee") from and against any and all claims, actions, liabilities, losses, and expenses (including reasonable attorney fees) (collectively, "Claims") arising out of actual or alleged injury of any person (including death) or loss or damage to tangible or intangible property caused, or alleged to be caused, in whole or in part, by any act or omission of Consultant or any of Consultant's directors, officers, agents, employees, volunteers, or subconsultants. This indemnity includes any claim or amount arising or recovered under the Workers' Compensation Law or arising out of the failure of Consultant to conform to any federal, state or local law, statute, ordinance, rule, regulation or court decree. The Indemnitee will, in all instances, except for Claims arising solely from the acts or omissions of the Indemnitee, be indemnified by Consultant from and against any and all Claims. Consultant is responsible for primary loss investigation, defense and judgment costs for any Claim to which this indemnity applies. This indemnity will survive the expiration or termination of this Contract.

9.2. All warranty and indemnification obligations under this contract shall survive expiration or termination of the contract, unless expressly provided otherwise. The Parties agree that any indemnification provision inconsistent with A.R.S. § 34-226 is, in all cases, not void, but will be interpreted and applied as if it were consistent with A.R.S. § 34-226.

9.3. Upon request, Consultant may fully indemnify and hold harmless any private property owner granting a right of entry to Consultant for the purpose of completing the project. The obligations under this Section do not extend to the negligence of District, its agents, employees or indemnities.

**10. Laws and Regulations.**

- 10.1. Compliance with Laws. Consultant will comply with all federal, state, and local laws, rules, regulations, standards and Executive Orders, without limitation to those designated within this Contract.
- 10.2. Licensing. Consultant warrants that it is appropriately licensed to provide the services under this Contract and that its Subconsultants will be appropriately licensed.
- 10.3. Choice of Law; Venue. The laws and regulations of the State of Arizona govern the rights and obligations of the parties under this Contract. Any action relating to this Contract must be filed and maintained in Superior Court in Pima County.
11. **Status of Consultant.** Consultant is an independent Consultant. Neither Consultant, nor any of Consultant's officers, agents or employees will be considered an employee of District for any purpose or be entitled to receive any employment-related benefits, or assert any protections, under the Pima County Merit System. Consultant is responsible for paying all federal, state and local taxes on the compensation received by Consultant under this Contract and will indemnify and hold District harmless from any and all liability that District may incur because of Consultant's failure to pay such taxes.
12. **Consultant's Performance.**
  - 12.1. Performance. Consultant will perform the work with the degree of care and skill required of any similarly situated Arizona registrant. Consultant will employ suitably trained and skilled professional personnel to perform all required services under this Contract. Prior to changing any key personnel, especially those key personnel District relied upon in making this contract, Consultant will obtain District's approval.
  - 12.2. Responsibility. Consultant is responsible for the professional quality, technical accuracy, timely completion, and the coordination of all its effort and other services furnished by Consultant under this Contract. Without additional compensation, Consultant will correct or revise any errors, omission, or other deficiencies in all products of its efforts and other services provided. This includes resolving any deficiencies arising out of the acts or omissions of Consultant found during or after the course of the services performed by or for Consultant under this Contract, regardless of District having knowledge of or condoning/accepting the products or the services. Correction of such deficiencies will be at no cost to District.
13. **Non-Waiver.** The failure of District to insist in any one or more instances upon full and complete compliance with any of the terms and provisions of this Contract or to take any action permitted as a result is not a waiver or relinquishment of the right to insist upon full and complete performance of the same or any other covenant or condition either in the past or in the future. The acceptance by either party of sums less than may be due and owing it at any time is not an accord and satisfaction.
14. **Subconsultant.** Consultant will be fully responsible for all acts and omissions of its Subconsultant and of persons directly or indirectly employed by Subconsultant and of persons for whose acts any of them may be liable to the same extent that Consultant is responsible for the acts and omissions of persons directly employed by it. Nothing in this Contract creates any obligation on the part of District to pay or any Subconsultant, except as may be required by law.
15. **Non-Assignment.** Consultant will not assign its rights or obligations under this Contract in whole or in part, without District's prior written approval. District may withhold approval at its sole discretion.

16. **Non-Discrimination.** Consultant will comply with all provisions and requirements of Arizona Executive Order 2009-09, which is hereby incorporated into this contract, including flow-down of all provisions and requirements to any Subconsultants. During the performance of this Contract, Consultant will not discriminate against any employee, client or any other individual in any way because of that person's age, race, creed, color, religion, sex, disability or national origin.
17. **Americans with Disabilities Act.** Consultant will comply with Title II of the Americans with Disabilities Act (Public Law 110-325, 42 U.S.C. §§ 12101-12213) and the federal regulations for Title II (28 CFR Part 35).
18. **Cancellation for Conflict of Interest.** This Contract is subject to cancellation for conflict of interest pursuant to A.R.S. § 38-511, the pertinent provisions of which are incorporated into this Contract by reference.
19. **Termination of Contract for Default.**
  - 19.1. Upon a failure by Consultant to cure a default under this Contract within ten days of receipt of notice from District of the default, District may, in its sole discretion, terminate this Contract for default by written notice to Consultant. In this event, District may take over the work and complete it by contract or otherwise. In such event, Consultant will be liable for any damage to the District resulting from Consultant's default, including any increased costs incurred by District in completing the work.
  - 19.2. **Default Events.** The following constitutes an event of default:
    - 19.2.1. Abandonment of or failure by Consultant to observe, perform or comply with any material term, covenant, agreement or condition of this Contract, or to prosecute the work or any separable part thereof with the diligence that will insure completion within the time specified in this contract, including any extension, or a failure to complete the work (or the separable part of the work) within the specified time;
    - 19.2.2. Persistent or repeated refusal or failure to supply adequate staff, resources or direction to perform the work on schedule or at an acceptable level of quality;
    - 19.2.3. Refusal or failure to remedy defective or deficient work within a reasonable time;
    - 19.2.4. Loss of professional registration or business or other required license or authority, or any curtailment or cessation for any reason of business or business operations that would substantially impair or preclude Consultant's performance of this Contract;
    - 19.2.5. Disregard of laws, ordinances, or the instructions of District or its representatives, or any otherwise substantial violation of any provision of the contract;
    - 19.2.6. Performance of work hereunder by personnel that are not qualified or permitted under state law or local law to perform such services;
    - 19.2.7. Commission of any act of fraud, misrepresentation, willful misconduct, or intentional breach of any provision of this Contract; or
    - 19.2.8. If a voluntary or involuntary action for bankruptcy is commenced with respect to Consultant, or Consultant becomes insolvent, makes a general assignment for the benefit of creditors, or has a receiver or liquidator appointed in respect of its assets.
  - 19.3. **Termination.** In the event of a termination for default:
    - 19.3.1. All finished and unfinished drawings, specifications, documents, data, studies, surveys, drawings, photographs, reports and other information in whatever form, including electronic,

acquired or prepared by Consultant for this project become District's property and will be delivered to District not later than five business days after the effective date of the termination;

- 19.3.2. District may withhold payments to Consultant arising under this or any other Contract for the purpose of set-off until such time as the exact amount of damage due District from Consultant is determined; and
- 19.3.3. Subject to the immediately preceding subparagraph 19.3.2, District's liability to Consultant will not exceed the Contract value of work satisfactorily performed prior to the date of termination for which District has not previously made payment.
- 19.4. Non-Termination. District will not terminate Contract for default or charge Consultant with damages under this Section if:
  - 19.4.1. Except for subparagraph 19.2.8 in subsection 19.2 above, the event of default or delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of Consultant. Examples of such causes include:
    - 19.4.1.1. Acts of God or of the public enemy,
    - 19.4.1.2. Acts of District in either its sovereign or contractual capacity,
    - 19.4.1.3. Acts of another Contractor in the performance of a contract with District,
    - 19.4.1.4. Fires,
    - 19.4.1.5. Floods,
    - 19.4.1.6. Epidemics,
    - 19.4.1.7. Quarantine restrictions,
    - 19.4.1.8. Strikes,
    - 19.4.1.9. Freight embargoes,
    - 19.4.1.10. Unusually severe weather, or
    - 19.4.1.11. Delays of Subconsultants at any tier arising from unforeseeable causes beyond the control and without the fault or negligence of both Consultant and the Subconsultant(s); and
  - 19.4.2. Consultant, within seven days from the beginning of any event of default or delay (unless extended by District), notifies District in writing of the cause(s) therefor. In this circumstance, District will ascertain the facts and the extent of the resulting delay. If, in the reasonable judgment of District, the findings warrant such action, District may extend the time for completing the work.
- 19.5. Receipt of Notice. For the purposes of subsection 19.1 above, "receipt of notice" includes receipt by hand by Consultant's project manager, by facsimile transmission with notice of receipt, or under the Notices clause of this Contract.
- 19.6. Excusable. If, after termination of the Contract for default, District determines that the Consultant was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if District had terminated Contract for convenience as set forth in Section 20.

- 19.7. **Rights and Remedies.** The rights and remedies of District in this Section are cumulative and in addition to any other rights and remedies provided by law or under this contract.
20. **Termination for Convenience of District.** District may terminate this Contract at any time by giving written notice to Consultant of such termination and specifying the effective date thereof, at least 15 days before the effective date of such termination. In that event, all finished or unfinished documents and other materials will, at the option of the District, become its property. If District terminates the Contract as provided herein, District will pay Consultant an amount based on the time and expenses incurred by Consultant prior to the termination date, however, no payment will be allowed for anticipated profit on unperformed services.
21. **Non-Appropriation of Funds.** Notwithstanding any other provision in this Contract, this Contract may be terminated if for any reason the Pima County Board of Directors does not appropriate sufficient monies for the purpose of maintaining this Contract. In the event of such termination, District will have no further obligation to Consultant, other than payment for services rendered prior to termination.
22. **Notices.** Any notice required or permitted to be given under this Contract must be in writing and be served by delivery or by certified mail upon the other party as follows:

DISTRICT:

Eric Shepp, Director  
PCRFCD, Pima District  
201 N. Stone Ave., 9<sup>th</sup> Floor  
Tucson, Az. 85701  
Tel: (520) 724-6400

CONSULTANT:

Ricardo P. Solis, Owner/Manager  
Solis Engineering Co., LLC  
5325 S. Civano Boulevard  
Tucson, AZ 85747  
Tel: (520) 247-7691

23. **Other Documents.** District and Consultant in entering into this Contract have relied upon information provided in Request for Qualifications No. RFQu-2500019507, and on representations and information in the Consultant's response to said RFQu. These documents are hereby incorporated into and made a part of this Contract as if set forth in full herein, to the extent not inconsistent with the provisions of this Contract. Consultant will perform services in accordance with the terms of the Contract and at a level of care consistent with prevailing industry standards. In the event any provision of this contract is inconsistent with those of any other document, the contract provisions will prevail.
24. **Remedies.** Either party may pursue any remedies provided by law for the breach of this Contract, provided, however, that the procedures in Section 28 are first exhausted. No right or remedy is intended to be exclusive of any other right or remedy and each is cumulative and in addition to any other right or remedy existing at law or at equity or by virtue of this Contract.
25. **Severability.** Each provision of this Contract stands alone, and any provision of this Contract found to be prohibited by law is ineffective to the extent of such prohibition without invalidating the remainder of this Contract.
26. **Books and Records.**
  - 26.1. **Maintenance.** Consultant will keep and maintain proper and complete books, records and accounts, which will be open at all reasonable times for inspection and audit by duly authorized representatives of District.
  - 26.2. **Retention.** Consultant will retain all records relating to this contract at least five years after its termination or cancellation or until any related pending proceeding or litigation has been closed, if later. Alternatively, Consultant may, at its option, deliver such records to District for retention.

27. **Delays.** Neither party will be in default in the performance of its obligations to the extent that the performance of any such obligation is prevented or delayed by any cause, existing or future, which is beyond the reasonable control of such party.

28. **Disputes.**

- 28.1. Resolving Dispute. In the event of a dispute between the parties regarding any part of this Contract or the parties' obligations or performance hereunder, either party may request a special meeting between their respective representatives to resolve the dispute. If the dispute remains unresolved, then either party may request escalation of the issue to a meeting between the Director of the Pima County Department administering this Contract and Consultant's counterpart official, such meeting to be held within one week of the request, unless otherwise agreed. If the dispute is still not resolved after that meeting, then either party may pursue such remedy or remedies as may be available to them under the laws of the State of Arizona.
- 28.2. Performance. The parties will continue performance of their respective obligations under this Contract notwithstanding the existence of any dispute.
29. **Ownership of Documents.** Ownership of all original drawings, field data, estimates, field notes, plans, specifications, documents, reports, calculations, and other information developed by Consultant under this contract vests in and become the property of District and shall be delivered to District upon completion or termination of the services, but Consultant may retain and use copies thereof. District agrees that the material will not be used for any project other than the project for which it was designed without the expressed permission of the Consultant.

30. **Public Records.**

- 30.1. Disclosure. Pursuant to A.R.S. § 39-121 et seq., and A.R.S. §§ 34-603(H), 604(H), in the case of construction or Architectural and Engineering services procured under A.R.S. Title 34, Chapter 6, all information submitted by Consultant in any way related to this contract, including, but not limited to, pricing, product specifications, work plans, and any supporting data becomes public information and upon request, is subject to release and/or review by the general public including competitors.
- 30.2. Records Marked Confidential.
- 30.2.1. Any information submitted related to this Contract that Consultant believes constitutes proprietary, trade secret or otherwise confidential information must be appropriately and prominently marked as Confidential prior to submittal to District and be accompanied by an index specifically identifying and describing the general contents of each page so marked. The index is a Public Record and must not include any information considered confidential.
- 30.2.2. Notwithstanding the above provisions, in the event records marked Confidential are requested for public release pursuant to A.R.S. § 39-121 et seq., District will release records marked Confidential 10 business days after the date of notice to the Consultant of the request for release, unless Consultant has, within the ten day period, secured a protective order, injunctive relief or other appropriate order from a court of competent jurisdiction in Arizona, enjoining the release of the records. For the purposes of this paragraph, the day of the request for release is not counted in the time calculation. District will notify Consultant of any request for such release on the same day of the request for public release or as soon thereafter as practicable. District is not, under any circumstances, responsible for securing a protective order or other relief enjoining the release of records marked Confidential, nor is District in any way financially responsible for any costs associated with securing such an order.

**31. Legal Arizona Workers Act Compliance.**

- 31.1. **Compliance with Immigration Laws.** Consultant warrants that it will at all times during the term of this Contract comply with all federal immigration laws applicable to Consultant's employment of its employees, and with the requirements of A.R.S. § 23-214 (A) (together the "State and Federal Immigration Laws"). Consultant will further ensure that each Subconsultant who performs any work for Consultant under this contract likewise complies with the State and Federal Immigration Laws.
- 31.2. **Books & Records.** District has the right at any time to inspect the books and records of Consultant and any Subconsultant in order to verify such party's compliance with the State and Federal Immigration Laws.
- 31.3. **Remedies for Breach of Warranty.** Any breach of Consultant's or any Subconsultant's warranty of compliance with the State and Federal Immigration Laws, or of any other provision of this section, is a material breach of this Contract subjecting Consultant to penalties up to and including suspension or termination of this Contract. If the breach is by a Subconsultant, and the subcontract is suspended or terminated as a result, Consultant must take such steps as may be necessary to either self-perform the services that would have been provided under the subcontract or retain a replacement Subconsultant, (subject to District approval if SBE or DBE preferences apply) as soon as possible so as not to delay project completion.
- 31.4. **Subconsultants.** Consultant will advise each Subconsultant of District's rights, and the Subconsultant's obligations, under this Section by including a provision in each subcontract substantially in the following form:

"Subconsultant hereby warrants that it will at all times during the term of this contract comply with all federal immigration laws applicable to Subconsultant's employees, and with the requirements of A.R.S. § 23-214 (A). Subconsultant further agrees that District may inspect the Subconsultant's books and records to insure that Subconsultant is in compliance with these requirements. Any breach of this paragraph by Subconsultant is a material breach of this contract subjecting Subconsultant to penalties up to and including suspension or termination of this contract."

- 31.5. **Costs.** Any additional costs attributable directly or indirectly to remedial action under this Section are the responsibility of Consultant. In the event that remedial action under this Section results in delay to one or more tasks on the critical path of Consultant's approved construction or critical milestones schedule, such period of delay is excusable delay for which Consultant is entitled to an extension of time, but not costs.
32. **Israel Boycott Certification.** Pursuant to A.R.S. § 35-393.01, if Consultant engages in for-profit activity and has 10 or more employees, and if this Contract has a value of \$100,000.00 or more, Consultant certifies it is not currently engaged in, and agrees for the duration of this Contract to not engage in, a boycott of goods or services from Israel. This certification does not apply to a boycott prohibited by 50 U.S.C. § 4842 or a regulation issued pursuant to 50 U.S.C. § 4842.
33. **Forced Labor of Ethnic Uyghurs.** Pursuant to A.R.S. § 35-394, if Consultant engages in for-profit activity and has 10 or more employees, Consultant certifies it is not currently using, and agrees for the duration of this Contract to not use (1) the forced labor of ethnic Uyghurs in the People's Republic of China; (2) any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China; and (3) any consultants, subconsultants or suppliers that use the forced labor or any goods or services produced by the forced labor of ethnic Uyghurs in the People's Republic of China. If Consultant becomes aware during the term of the Contract that the Company is not in compliance with A.R.S. § 35-394, Consultant must notify the District within five business days and provide a written certification to District regarding compliance within one hundred eighty days.

34. **Heat Injury and Illness Prevention and Safety Plan.** Pursuant to Pima County Procurement Code 11.40.030, Consultant hereby warrants that if Consultant's employees perform work in an outdoor environment under this Contract, Consultant will keep on file a written Heat Injury and Illness Prevention and Safety Plan. At District's request, Consultant will provide a copy of this plan and documentation of heat safety and mitigation efforts implemented by Consultant to prevent heat-related illnesses and injuries in the workplace. Consultant will post a copy of the Heat Injury and Illness Prevention and Safety Plan where it is accessible to employees. Consultant will further ensure that each subconsultant who performs any work for Consultant under this Contract complies with this provision.
35. **Amendment.** Except for the reallocation of funds provision above in Section 7, this Contract may be modified, amended, altered or extended only by a written amendment signed by the Parties.
36. **Entire Agreement.** This document constitutes the entire agreement between the Parties and all prior or contemporaneous agreements and understandings, oral or written, are hereby superseded and merged herein.
37. **Effectiveness and Date.** This contract will become effective when all Parties have signed it. The date of this Contract will be the date the Contract is signed by the last Party to sign it (as indicated by the date associated with that Party's signature).

Each Party is signing this Contract on the date below that Party's signature.

PIMA COUNTY:

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Chair, Board of Directors

---

Date

CONSULTANT:



---

Signature

Ricardo Solis / Owner-Manager

---

Name and Title (Please Print)

---

1/28/2026

---

Date

ATTEST:

---

Clerk of the Board

---

Date

This contract template has been approved as to form by the Pima County Attorney's Office.

## EXHIBIT A - SCOPE OF SERVICES (10 Pages)

**PIMA COUNTY  
REGIONAL FLOOD CONTROL DISTRICT  
201 N STONE AVE, 9<sup>th</sup> FLOOR, TUCSON,  
ARIZONA 85701-1797**

**ERIC SHEPP, P.E.  
DIRECTOR**

**Phone (520) 724-4600  
FAX (520) 724-4621**

**January 23, 2026**

### **DREXEL TO VALENCIA EAST BANK RESTORATION**

**PROJECT NAME:** Design Engineering Services for Drexel to Valencia East Bank Restoration  
**PROJECT NUMBER:** 24076PFC

#### **PROJECT OVERVIEW**

The Pima County Regional Flood Control District (District) is seeking the services of a consulting engineer to conduct a feasibility study and prepare design documents for a proposed Soil Cement Bank Protection and River Park along the east bank of the Santa Cruz River, between Drexel Road and Valencia Road.

As part of the feasibility study, the consultant shall evaluate the appropriate alignment and limits of the soil cement bank protection on both sides of the river and a river park along the east bank. The feasibility study shall determine whether the project will require a Conditional Letter of Map Revision (CLOMR), Letter of Map Revision (LOMR), and/or a Section 404 permit from the U.S. Army Corps of Engineers. As part of the feasibility study, the consultant shall present the extents of the bank protection and concepts for the east overbank river park that will incorporate water harvesting, the paved loop, and a decomposed granite pathway. The feasibility shall include a construction cost estimate.

The Drexel to Valencia East Bank Restoration project has a construction budget of approximately \$6,000,000.

This scope of work includes the following major elements:

- Feasibility Study that includes the east and west soil cement riverbanks and a layout with water harvesting concepts for the east overbank. The layout for the west overbank is limited to only those improvements associated with the City of Tucson Drexel Bridge.
- Soil Cement Bank Protection based on the necessary level of protection for both the east and west banks for the future City of Tucson Drexel Road Bridge.
- Construction plans for the Final design
- Chuck Huckelberry Loop pathway and decomposed granite pathway on the east bank.
- Landscape restoration, planting, irrigation, and SWPPP for the east overbank and river park and only SWPPP design services for the west overbank, due to incorporation of soil cement and paved loop modifications associated with the City of Tucson Drexel Bridge.

#### **General Assumptions & Exclusions:**

- The level of effort for each phase and work task is limited to the amount of labor and expenses identified in a Project Budget spreadsheet. Costs are itemized to aid in project tracking purposes only. The budget may be transferred between tasks, provided the total contracted amount is not exceeded. Additional services beyond these limits will be considered Extra Work.
- The duration of the project design is anticipated to be no longer than 18 months from notice- to-proceed. The Consultant is responsible for meeting deadlines for their and their subconsultants' tasks only.

- Originals of all project deliverables will be delivered to the District Project Manager (PM).
- Meeting summaries will be distributed electronically. Hard copies will not be provided.
- Unless specified within individual tasks, a PDF copy of each report will be submitted to the District. At the completion of the project, appropriate CAD files shall be provided to the District.
- Written comments will be prepared by the District after each submittal and provided to the Consultant. The Consultant shall provide a written response to each comment and include the comments and responses with the next specified submittal.
- The Consultant should strive to provide a design that can be constructed within the designated construction budget of \$6,000,000 for the project. If that is not feasible due to the current construction market, then value engineering options will be discussed prior to expanding the construction budget.
- The design must address, through avoidance and/or mitigation, all applicable requirements related to cultural resources.
- A Stormwater Pollution Prevention Plan that incorporates stormwater pollution prevention practices will be prepared.
- Any required remapping of the Santa Cruz River Jurisdictional Delineation is the responsibility of the District.
- The Consultant will develop landscape plans that meet the general intent of the Pima County Native Plant Preservation Ordinances (and related ordinances and/or development standards) relative to preservation of native plant specimens in-place when feasible. However, the preparation of a Native Plant Preservation Plan (NPPP), per the subject ordinances, is not included in the scope of this project. The project documents will not obligate the County to salvage native plant specimens.
- Consultant shall develop Soil Cement design with full understanding of all regulatory requirements and design/engineering standard such as DS-304 and other applicable design criteria.
- The Consultant will develop invasive plant mapping for use by the contractor for eradication.
- The Consultant will perform preliminary initial site assessment procedures for hazardous materials and prepare a written report summarizing the findings, conclusions, and recommendations.
- The Consultant will perform lead-based paint and asbestos testing and prepare a written report summarizing findings, conclusions, and recommendations.
- The Consultant assumes no coordination with ADOT.
- The Consultant shall coordinate with the City of Tucson's Drexel Road Bridge project team, as their bridge will be protected by the soil cement constructed with this project.
- The final design may trigger an individual 404 permit, the Consultant will coordinate with US Army Corps of Engineers to meet the requirements.
- ALTA survey shall be provided with this project. Conditions of Title will be obtained for up to Seven parcels to identify easements or other covenants.
- The Consultant shall coordinate with the City of Tucson regarding improvements to the Valencia Wash, in compliance with WASH ordinances.
- Post design services, such as bidding phase services and construction phase services are not included in this scope of services. County intends to combine the Drexel to Valecia East Bank Restoration and Santa Cruz River Irvington to Drexel East Bank Improvements design projects to be solicited and completed under one Construction Manager at Risk Services contract. Post design services, such as bidding phase services and construction management and administration services shall be added via an amendment to this contract as needed.

## **TASK 1.0 PROJECT COORDINATION**

### **TASK 1.1 MEETINGS, COMMUNICATION AND COORDINATION**

The Consultant shall provide coordination per instruction of the District PM between the District, subconsultants, and other entities. These include, but are not limited to, City of Tucson, Office of Cultural Resources and Historic Preservation, and potentially impacted utilities. An assumption of the type and number of project meetings is provided in Table 1 below and is based on a project design duration of 18 months.

Prior to commencing design, the Consultant and project team shall prepare for and attend a field meeting to walk the entire project area and discuss site specifics with County staff. The Consultant shall prepare written notes to summarize field discussions.

**TABLE 1  
SUMMARY OF PROJECT MEETINGS**

Type of Meeting	Total Number of Meetings
Final Design Kick-off Meeting*	1
Field Meeting**	2
Stakeholder /Progress Meeting*	18
Public Meeting**	2
Consultant Team Meeting*	9
Utility Coordination Meeting*	2
Drexel Bridge Coordination Meeting*	4

(\*) Virtual Meeting / (\*\*) In-Person Meeting

### **TASK 1.2 PROJECT SCHEDULE**

The Consultant shall create a schedule in Microsoft Project for design activities within 15 days of the kick-off meeting and shall update the schedule throughout the project as necessary and, as a minimum, at major milestones. Revised schedules shall be distributed to the District PM and other stakeholders as appropriate.

### **TASK 1.3 PUBLIC PARTICIPATION**

The District shall develop a public involvement plan which is to include one public meeting open to all interested parties as well as small group stakeholder meetings as deemed necessary by the District PM. The District will identify a date for the public meeting.

**The District will perform the following subtasks:**

- Coordinate meeting dates, times, locations and set-up.
- Provide meeting facilities and insurance, if required.
- Provide reproduction and distribution of public notice of meetings including mailing list, handling and postage for mailing.
- Reproduce and mail surveys.
- Prepare ad announcement and place in the Arizona Daily Star.
- Prepare and post a public notice on project website.
- Prepare and distribute news release to appropriate media.
- Prepare and distribute government official notification.
- Receive, compile and distribute questionnaire results.
- Prepare and distribute meeting summaries.

**The Consultant shall perform the following subtasks:**

- Provide materials, such as any sign-in sheets, agendas and fact sheets, and assist with one

- public meeting with graphics.
- Assist Pima County in preparing questionnaire content for the public meeting.
  - Assist Pima County with responses to questions and comments from the public, under the direction of Pima County Community Relations Office members.

#### **TASK 1.4 PUBLIC ART COORDINATION**

There is no public art anticipated for this project. Instead, the associated public art funds associated with this project will be recorded and combined for a future large public art project on another project.

#### **TASK 1.5 MISCELLANEOUS PROJECT GRAPHICS**

The Consultant shall provide miscellaneous graphics related to project development, as needed, in support of project meetings, internal District coordination, stakeholder coordination, property and easement acquisition negotiations, and for other reasons as requested by the District.

#### **TASK 1.6 DREXEL ROAD BRIDGE COORDINATION**

The Consultant shall coordinate with the City of Tucson Drexel Road Bridge design team to ensure that the soil cement bridge embankments are aligned in accordance with the design parameters established by the Drexel Road Bridge team.

#### **DELIVERABLES:**

- Detailed project schedule (update as needed)
- Summary of notes from onsite field meetings
- Public meeting materials
- Miscellaneous project graphics (as needed)
- Summary of notes from Drexel Bridge Coordination

### **TASK 2.0 SURVEY, MAPPING AND RIGHT-OF-WAY**

#### **TASK 2.1 FIELD SURVEY**

The Consultant will provide project boundary, right-of-way, and topography survey for the following properties:

- 13801004D – Pima County
- 137090100 – Pima County
- 137118220 – Pima County
- 13711431J – Pima County
- 137335710 – Pima County
- 13709002C – Pima County

#### **TASK 2.2 CONDITIONS OF TITLE**

The Consultant will include an allowance for up to 6 conditions of title for the properties listed below. However first the Consultant will confirm if the District or Pima County Real Property already has this information available.

Obtain Conditions of Title for the following properties:

- 13801004D – Pima County
- 137090100 – Pima County
- 137118220 – Pima County
- 13711431J – Pima County
- 137335710 – Pima County
- 13709002C – Pima County

### **TASK 2.3 PLOT IDENTIFIED EASEMENTS (ALTA SURVEY)**

The Consultant will plot easements as found in the Conditions of Title – Schedule B. The Consultant shall prepare an ALTA survey for the project extents.

### **TASK 2.4 MISCELLANEOUS SPOT SURVEY**

The Consultant will perform up to two additional site visits to capture additional survey as needed.

### **TASK 2.5 INVASIVE SPECIES MAPPING**

The Consultant will map invasive species between the Eastbank of the river and Calle Santa Cruz, between Valencia to just past Drexel Road, to the project tie-in.

At the discretion of the County, the invasives could be treated prior to construction of this project. The costs for treatment are the responsibility of the County.

### **TASK 2.6 NATIVE PLANT MAPPING**

The Consultant will map existing large trees and shrubs between the Eastbank of the river and Calle Santa Cruz, between Valencia and the Drexel Bridge project extents.

As a cost saving measure, and at the discretion of the County, trees that are in conflict with proposed improvements could be removed prior to construction and before MBTA seasonal constraints.

#### **DELIVERABLES**

- Conditions of Title
- Plotting of easement(s)
- Design Survey
- ALTA Survey
- Invasive Species Mapping
- Native Plant Mapping (Existing Trees and Large Shrubs)

### **TASK 3.0 HYDROLOGY AND HYDRAULICS**

The Consultant shall include drainage analysis and recommendations for both river and overbank elements.

#### **TASK 3.1 – INITIAL HYDROLOGIC & HYDRAULIC (H&H) REPORT**

Summarize existing river hydraulics, offsite/tributary drainage, FEMA status, preliminary proposed hydraulics (schematic nature), and preliminary scour results. Submitted at 30%.

#### **TAKS 3.2 – FINAL H&H REPORT**

Add detailed analysis, final channel modeling, final sediment transport analysis, final design recommendations and final scour results. Final overbank calculations for minor drainage structures and tributary structures will be included here. Submitted at 60%.

#### **TASK 3.3 – H&H REPORT ADDENDUM**

Provides drainage documentation for items that may have changed between 60% and 100% stages.

#### **DELIVERABLES**

- Initial & Final Hydrology and Hydraulics Analysis Reports
- H&H Addendum

### **TASK 4.0 FEMA COMPLIANCE / COORDINATION**

The Consultant shall ensure compliance with relevant FEMA and District regulations related to project related impacts to federally designated floodplains within the project area. If required by the project and as a contract change order, the Consultant shall be responsible for completion of a Conditional Letter on Map Revision (CLOMR) for the project if required as described below (Tasks 4.1 and 4.2).

The determination of their need will likely be made following the preparation of the Feasibility study as described in **Task 10.0** in this scope of work.

#### **TASK 4.1 CLOMR PREPARATION**

The Consultant shall be responsible for preparing and submitting the required a Conditional Letter on Map Revision (CLOMR) package for this project to FEMA for review and approval utilizing the hydraulic modeling completed in Task 3.0. The Consultant shall address any comments from FEMA regarding the submittal. A CLOMR is required if the recommended improvements result in a one (1) foot rise in the FEMA adopted 100-year Base Flood Elevations within the floodplain or, a one hundredth (0.01) foot rise water surface elevation occurs from encroachment in the floodway. Compliance to all Federal, State and local standard procedures, guidelines, specifications and technical data shall be required in developing the CLOMR package. Approval of the CLOMR by FEMA is needed prior to construction. The Consultant shall pay the cost of the CLOMR

#### **TASK 4.2 POST CONSTRUCTION MAPPING**

If a CLOMR is required, a post-construction Letter of Map Revision (LOMR) will also be required.

The Consultant shall be responsible for preparing and submitting the required a LOMR package for this project to FEMA for review and approval utilizing the approved CLOMR hydraulic model which has been revised using as-built data to reflect post construction conditions. The Consultant shall address any comments from FEMA regarding the submittal through final approval. Compliance to all Federal, State and local standard procedures, guidelines, specifications and technical data shall be required in developing the LOMR package. The Consultant shall pay the cost of the LOMR.

#### **TASK 4.3 BIOLOGICAL EVALUATION AND ENDANGERED SPECIES ACT (ESA) COMPLIANCE LETTER**

A Biological Evaluation and, if required, an Endangered Species Act Compliance Letter will be prepared by the Consultant.

#### **TASK 4.4 FEMA SCOPING LETTER**

Consultant shall prepare a letter that evaluates the project compliance with FEMA and National Flood Insurance Program (NFIP) regulations and identifies necessary steps, if any, to bring the project into compliance.

#### **DELIVERABLES**

- Approved CLOMR – pre-construction (Via Change Order)
- Approved LOMR – post construction (Via Change Order)
- Biological Evaluation
- Endangered Species Act (ESA) Compliance Letter
- FEMA Scoping Letter

### **TASK 5.0 GEOTECHNICAL**

#### **TASK 5.1 GEOTECHNICAL INVESTIGATION**

The Consultant shall coordinate with a geotechnical subconsultant to have soil quality tests performed to provide recommendations for the Soil Cement mix design based on available on site materials. The geotechnical subconsultant shall address issues of slope stability as it may relate to the construction of soil cement bank protection. The Consultant shall coordinate with the Geotechnical Engineer throughout site investigation and design tasks.

The Consultant shall coordinate with Pima County for Cultural Clearance for Geotechnical Investigation.

The Geotechnical Engineer shall provide foundations bearing capacities and any required soil cement slope stability analysis.

## **DELIVERABLES**

- Geotechnical Report

## **TASK 6.0 UTILITIES COORDINATION**

### **TASK 6.1 UTILITY COORDINATION**

The Consultant shall perform utility coordination with all utility companies, agencies, and departments with existing facilities within the project limits. Utility coordination efforts shall include the following services:

- Filing a current AZ811 Design Request for the project to verify no new utility holders.
- Distribution of the 30% / 60% / 100%-Final Plans (or as directed by County PM) to the subject utility companies for utility clearance requests.
- Perform written and verbal communications with utilities in an effort to mitigate utility conflicts or coordinate relocations and any agreements.
- Finalize the Utility Status Letter and attach all responses and clearances from utilities.

### **TASK 6.2 UTILITY POTHOLING**

The Consultant shall obtain the services of a qualified utility pothole contractor to verify the horizontal and vertical locations of existing utilities in the project limits which may be in conflict with proposed improvements. It has been assumed that no more than 20 potholes will be required for design.

## **DELIVERABLES**

- Utility Status Letter / Clearance Letters
- Obtain Cultural Clearance prior to potholing
- Utility potholing results

## **TASK 7.0 404 PERMITTING**

Depending on the Soil Cement alignment, the District may be seeking an Army Corps of Engineers (the Corps) Section 404 Clean Water Act (CWA) permit to impact Waters of the United States (WUS) for the construction and maintenance of bank stabilization measures. The consultant will assist in preparing a Preconstruction Notification for a Section 404 permit for the project.

County will provide Jurisdictional Delineation throughout the project limits.

The Consultant shall provide earthwork for haul routes and excavations that constitute temporary and permanent excavation for the nationwide permit.

## **DELIVERABLES**

- 404 Application Package

## **TASK 8.0 CULTURAL RESOURCES COORDINATION**

The objective of the County is to, as much as possible, minimize impacts to cultural resources. It is expected that the Consultant will work closely with the District PM and Pima County Cultural Resources And Historic Preservation Office throughout the project to minimize impacts to cultural resources and to ensure that required cultural resources compliance activities are coordinated with project design and construction. The priorities are to identify, avoid, minimize impacts to cultural resources, and to mitigate the effects of any such impacts. The Pima County Cultural Resources and Historic Preservation office will contract, independently, for any additional cultural resource services needed to fulfill compliance responsibilities for this project.

## **DELIVERABLE**

- None

## **TASK 9.0 HAZARDOUS MATERIALS**

The Consultant will perform preliminary initial site assessment procedures for hazardous materials and prepare a written report summarizing the findings, conclusions, and recommendations.

The Consultant will perform lead-based paint and asbestos testing and prepare a written report summarizing findings, conclusions, and recommendations. The locations to be sampled only include in-place structures (foundation on top of east bank, the abandoned pipe in Valencia Wash, and one additional To-Be-Determined location).

Wildcat dumping and debris will not be sampled.

### **DELIVERABLES**

- Preliminary Initial Site Assessment
- Lead-based paint and asbestos testing report (up to 3 locations)

## **TASK 10.0 FEASIBILITY STUDY**

Prior to the preparation of construction plans (Task 11), the Consultant shall prepare a feasibility study for Soil Cement Bank Protection for both the east and west banks of the Santa Cruz River and concepts for the east overbank river park, between Drexel Road and Valencia Road. The east overbank river park shall incorporate water harvesting, the paved loop, and a decomposed granite pathway. As part of the feasibility study, the consultant shall evaluate the appropriate alignment and limits of the soil cement bank protection, Loop path alignment and determine whether the project will require a Conditional Letter of Map Revision (CLOMR), Letter of Map Revision (LOMR), and/or a Section 404 permit from the U.S. Army Corps of Engineers.

The consultant shall also develop and present a conceptual project layout and develop an associated construction cost estimate. The conceptual layout shall be in the form of 10% construction plans and accompanied by a probable cost estimate within the feasibility study.

The drainage evaluation of the soil cement extents and alignments will include offsite hydrology for the west bank (which is included in Task 3.1).

The Feasibility Study is anticipated to include in the following table of contents:

### **10.1 INTRODUCTION**

- 10.1.1 Location
- 10.1.2 Programmed Funding & Allocation Schedule
- 10.1.3 Total Project Costs for Study Alternatives

### **10.2 EXISTING CONDITIONS**

- 10.2.1 Description of Need
- 10.2.2 Existing Banks and Overbank Conditions
- 10.2.3 Existing Drainage
- 10.2.4 Existing Geotechnical Considerations
- 10.2.5 Existing Pedestrian / Bicycle Access
- 10.2.6 Existing Vegetation
- 10.2.7 Property Ownership
- 10.2.8 Existing Utilities

### **10.3 PROJECT SCOPE**

- 10.3.1 Drainage (River & Overbanks)
- 10.3.2 Bank Stabilization Design Elements
- 10.3.3 Overbank Design Elements

- 10.3.4 Cultural Resources Site Requirements
- 10.3.5 Water Harvesting & Restoration Elements
- 10.3.6 Landscape & Irrigation

#### 10.4 PROJECT DEVELOPMENT CONSIDERATIONS

- 10.4.1 Environmental Overview
- 10.4.2 Biological
- 10.4.3 Wetland and Riparian Areas
- 10.4.4 Section 404 of the Clean Water Act
- 10.4.5 Floodplain Encroachment
- 10.4.6 Cultural Resources Investigations
- 10.4.7 Hazardous Materials
- 10.4.8 AZPDES Stormwater Permit
- 10.4.9 Public/Agency Scoping
- 10.4.10 Ground Disturbance Associated with Geotechnical Analysis and Utility Potholing
- 10.4.11 Construction Contract Method
- 10.4.12 Critical Outside Agency Involvement
- 10.4.13 Right-of-Way & Property Requirements
- 10.4.14 Utility Relocation Requirements
- 10.4.15 Seasonal Considerations
- 10.4.16 Bicycle Pathway and Walking Trail Requirements
- 10.4.17 Design Criteria

#### 10.5 OTHER REQUIREMENTS

- 10.5.1 Environmental Resource Zone (ERZ)
- 10.5.2 CLOMR / LOMR
- 10.5.3 Staging Area and Soil Cement Plant Site

#### 10.6 ESTIMATED COSTS / ITEMIZED COST ESTIMATES

- 10.6.1 Probable Cost Estimate

#### 10.7 VICINITY MAP

- 10.7.1 Vicinity Map

#### **Appendix**

- Appendix A – 10% Concept Plans
- Appendix B – Basis of Unit Construction Costs (Bid Item Costs)
- Appendix C – FIRM Panel Maps
- Appendix D – Project Schedule
- Appendix E – Drainage Technical Memorandum (Up to 5 pages in length)

#### **DELIVERABLES**

- Initial Feasibility Study & 10% Plans
- Final Feasibility Study & 10% Plans

### **TASK 11.0 FINAL PLANS, SPECIAL PROVISIONS, OPINION OF PROBABLE CONSTRUCTION COSTS, & BID TABULATION**

The Consultant shall prepare construction plans and an opinion of probable construction cost for the project for 30%, 60%, and 100% - Sealed. The documents shall include project requirements for demolition, site grading, bank protection, river park, utilities, tributary drainage structures, access drives, and other site features as required. Planting, irrigation and hydroseeding will be included in the scope of design. An irrigation plan for Landscape Establishment will be included in the scope of work.

The opinion of probable construction cost shall be in Bid Schedule format with estimated quantities for items of work and with allowances for incidental items.

The 30%, 60%, and 100% deliverables are anticipated to include:

- Construction Plans (11" x 17" format unless requested otherwise) – submittals will include greater detail as the project progresses.
- The 30% Plan Submittal will be focused on Utility Coordination, earthwork, and Soil Cement Construction extents.
- Special Provisions (60% and 100% Only)
- SWPPP (60% and 100% Only)
- Opinion of Probable Construction Costs (the contingency will decrease as the project progresses).
- Bid Tabulation (60% and 100% Only)
- Environmental Resources Report (Mitigation for ERZ)

The Consultant shall participate in an over-the-shoulder review conference with District staff to evaluate the 30%, 60% and 100% submittals. Upon completion of these conferences, the District will provide written comments to be addressed by the Consultant.

The Consultant may be called upon to perform services unknown or identified subsequent to the original scoping of the final design. This work shall be performed under the Unforeseen Work item.

During the preparation of this scope of work, no utility design by the Consultant is known at this time. If during the course of engineering design utility design is required, those services can be provided as a change order to the project. It should be noted that irrigation design is included with the project and that per Tucson Water mapping, potable water is available on the west side of Calle Santa Cruz at the Drexel Road intersection. It has been assumed that this project will obtain potable water for irrigation via a 2-inch meter, therefore not requiring water modification plans.

## **TASK 12.0     QUALITY CONTROL REVIEW**

The Consultant shall perform Quality Control Reviews for all project deliverables to the District.

## **TASK 13.0     PROJECT MANAGEMENT**

The Consultant will perform invoicing, budget review, and subconsultant invoice review. Additionally, the Consultant will keep detailed records of key project decisions and documentation in a Change Control Log.

## **END OF EXHIBIT A – SCOPE OF SERVICES**

## **EXHIBIT B - COMPENSATION SCHEDULE (82 pages)**

### **1. COST PLUS FIXED FEE SCHEDULE OF PAYMENTS**

(Detailed by Major Milestone, Not to Exceed Cost by Task (Direct Labor, Indirect, and Other Direct Costs), and Fixed Fee)

### **2. COMPENSATION DETAILS**

#### **A. Cost Allocation and Ceilings**

The compensation schedule will contain the negotiated cost allocations for each individual task. The compensation schedule will be used to monitor cost expenditures and sets the fixed price that can be charged for work pursuant to the specified task.

#### **B. Cost Adjustments**

If, for valid reason(s), Consultant notifies the Project Manager that the requisite work cannot be performed within the task's compensation allocation, and the Project Manager (PM) concurs, County will consider modifying cost allocations. The total compensation may be increased only by formal amendment to this agreement.

#### **C. Progress Payments**

It is anticipated certain elements of the Project may take longer than one (1) month to complete. These elements may be at considerable cost to Consultant prior to their full completion and acceptance by County. In such cases, at the sole discretion of County, County may authorize interim progress payments to Consultant. The invoice from Consultant will be proportionate to the actual percentage of work completed through the period covered by the invoice, as accepted by the PM.

#### **D. The Fixed Fee for each assignment will be negotiated on a case-by-case basis. The fee will be a percent of the Consultant or Co- Consultant level of effort cost estimate agreed to by the County excluding Sub-Consultants and other direct cost estimates. The fee will be fixed for the scope of work detailed in the contract. The fixed fee percentage will be based upon historical departmental percentages for similar assignments, published industry guidelines and magnitude and duration of the assignment. Fixed Fee for engineering SubConsultants will generally follow the same guidelines established for the prime consultants but can also be negotiated on a case-by-case basis as appropriate.**

### **E. COST ITEMS**

#### **1. Hourly Billing**

##### **a. Hourly Billing Rates**

- Actual Payroll Rates within published industry standards.
- Actual payroll rates for each person anticipated to be performing services on the assignment will be provided in advance of execution of the contract. Said listing will be updated on an annual basis during the term of the contract.
- Hourly fee schedules for various position titles are not allowed.

##### **b. Annual Salaried Professionals**

- Annual Salary individuals working a normal forty (40) hour week will be divided by two thousand eighty (2,080) hours to arrive at hourly billing rates.

- Annual Salary individuals working a normal thirty-seven and one-half (37.5) hour week will be divided by one thousand nine hundred fifty (1,950) to arrive at hourly billing rates.
  - c. Allowable Annual Increases
    - Reasonable annual salary increases within published industry standards will be allowed and approved in advance.
    - Unusually high proposed increases and increases above published industry standards will be agreed to on a case by case basis.
  - d. SubConsultants

Specific billing arrangements will be negotiated with specialty SubConsultants such as the following:

    - Attorneys
    - Financial Advisors
    - Surveyors
    - Subsurface Consultants
    - Specialty Consultants
  - e. Vacation/Holidays
    - Included in firm's audited multiplier
  - f. Sick Time
    - Included in firm's audited multiplier
  - g. Billing for non-productive idle time
    - No billing for vehicle driving time (commuting time)
    - Allow billing during air travel to Pima County for actual time worked on Pima County projects
    - Short-term assignments are negotiable
2. Multipliers
- a. Only audited multipliers following Generally Accepted Accounting Principles (GAAP) or Federal Single Audit principles are allowed
  - b. Corporate, Regional or Local Audited Multipliers of firms will be negotiated for each contract
  - c. Job Site multipliers will be negotiated in the event the County provides office space or job site trailers for the Consultant
  - d. County will consider annual audited multipliers or fixed multipliers for the contract period
3. Travel Time
- a. Air Travel
    - Allow only for time spent on aircraft working on Pima County projects
  - b. Land Travel
    - Not allowed from Phoenix Metro Area to Pima County (both ways)
    - Not allowed to and from airports
  - c. Local Travel between meetings and job sites
    - Allowed

4. Expenses

- a. Mileage (Between Phoenix Metro Area and Pima County)
  - Approve at the established County mileage rate.
  - Included in firm's audited multiplier or as other direct cost.
  - Mileage for commuting not allowed.
- b. Mileage – local
  - Approve at the established County mileage rate only allowable for projects outside a radius of 50 miles from 130 W. Congress, Tucson, AZ 85701.
  - Included in firm's audited multiplier or as other direct cost
  - Mileage for commuting to and from work place not allowed
- c. Car Rental/Lease/Corporate Vehicles
  - Included in firm's audited multiplier or as other direct cost.
- d. Hotel/Meals
  - Allow only for infrequent call-in of an out of state consultant for a limited period of time
  - Establish daily limits in accordance with Federal Guidelines and negotiable for unusual circumstances.
  - Allowed charges to be identified as other direct costs.
- e. IT/Phone/Internal Delivery Charges/Normal Postage/Miscellaneous/Other Administrative Charges
  - Include in firm's audited multiplier.
- f. Relocation, second domicile or subsistence expenses
  - Negotiable on a case by case basis.
- g. Reproduction Costs
  - Bill as other direct costs if not in audited multiplier
- h. All other direct costs will be detailed in the contract billing

5. Unallowable Costs

- a. Bonus
  - Not allowed as a direct charge or in the multiplier.
- b. Entertainment Costs
- c. Marketing Costs
  - Only as allowed in audited multipliers.
- d. Non-identifiable Costs
- e. Donations
  - Only as allowed in audited multipliers.
- f. Mark-up on subconsultants
- g. Travel time from Phoenix Metro Area to Pima County (both ways)
- h. Air travel for commuting purposes

### **C. INVOICING**

Consultant will submit invoices monthly, to the Project Manager, with appropriate supporting data and documentation and in a format as prescribed by the Project Manager. The Project Manager may delay approval for up to 5 work days to review the Progress Report and invoice. The invoice will tabulate the costs associated with each individual task. All Task (deliverables) and Subcontracted Service costs will be appropriately documented. The Project Manager will review and check the invoice to determine if it is complete and acceptable. If the Project Manager determines the invoice to be complete and acceptable, the Project Manager will approve the invoice and forward it for processing the payment.

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**FEES SCHEDULE**  
**24076PFC - DREXEL TO VALENCIA EAST BANK RESTORATION**  
**Design Engineering Services**  
**Solis Engineering Co., LLC (SBE)**  
**January 23, 2026**

**Direct Labor (Solis)**

<u>Classification</u>	<u>Estimated Hours</u>	<u>Direct+OH Labor Rate</u>	<u>Direct Labor Rate</u>	<u>Loaded Labor Costs</u>
Principal	1169	\$211.12	\$71.39	\$246,799.28
Senior A/E	0	\$208.02	\$70.34	\$0.00
Project Manager	0	\$184.83	\$62.50	\$0.00
A/E	1399	\$163.51	\$55.29	\$228,750.49
Designer	1404	\$140.59	\$47.54	\$197,388.36
CADD	1231	\$120.86	\$40.87	\$148,778.66
Clerical / Admin	36	\$85.32	\$28.85	\$3,071.52
<b>Direct Labor (DL)</b>	<b>5239</b>			<b>\$824,788.31</b>

**Estimated Direct Expenses**

<u>Type</u>	<u>Amount</u>	<u>Unit Costs</u>	<u>Cost</u>
Reproductions (34x44 Color Print Mounted on Foam Board)	6	\$131.53	\$789.16
Reproductions (Color Roll Plot 36"x144")	3	\$39.13	\$117.40
Misc. Reproductions	5000	\$1.00	\$5,000.00
<b>Total of Direct Expenses</b>			<b>\$5,906.56</b>

**Estimated Outside Expenses**

<u>Firm</u>	<u>Service</u>	<u>Cost</u>
ConformaTech (SBE)	Geotechnical Services / Lead Base Paint and Asbestos Testing	\$40,664.10
CMG Drainage Engineering	Hydrology and Hydraulics	\$164,656.75
Alta Survey, LLC	Misc. Survey / Topography / ALTA Survey	\$69,390.52
Structural Concepts, Inc. (SBE)	Bridge Abutment Foundations / Misc. Drainage Infrastructure	\$67,980.69
Wilder Landscape Architects (SBE)	Invasives Mapping / Hardscape Design / Planting / Irrigation / SWPPP	\$125,369.10
Tierra Right-of-Way Lmtd.	Biological Evaluation / ESA Letter / 404 Permitting	\$29,865.22
T2 Utilities	Utility Potholing	\$21,258.44

**Total of Outside Expenses** **\$519,184.82**

**Fixed Fee (8% of Labor Cost)**

**\$65,983.06**

**Total Estimated Costs**

**\$1,415,862.75**

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 211.12	Senior A/E	\$ 208.02	Project Manager	\$ 184.83	A/E	\$ 163.51	Designer	\$ 140.59	CADD	\$ 120.86	Clerical / Admin	\$ 85.32	Total Labor Cost	8% Profit	ConformaTech (SBE)	CMG Drainage Engineering	Alta Survey, LLC	Structural Concepts, Inc.	Wilder Landscape Architects (SBE)	Tierra Right-of-Way Lmtd.	T2 Utilities		Total Task	
					Per / Hour					Per / Hour					Per / Hour					Sub-Consultant Amounts	Sub-Consultant Amounts	Sub-Consultant Amounts	Sub-Consultant Amounts	Sub-Consultant Amounts	Sub-Consultant Amounts	Sub-Consultant Amounts	Total Sub-Consultant Amount		
					Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount											
<b>1.0 PROJECT COORDINATION</b>		787	380	\$ 80,225.60	0	\$ -	0	\$ -	321	\$ 52,486.71	49	\$ 6,888.91	37	\$ 4,471.82	0	\$ -	\$ 144,073.04	\$ 11,525.84	\$ 1,130.22	\$ 22,763.28	\$ 1,254.88	\$ 7,777.09	\$ 21,586.50	\$ 10,206.66	\$ 1,095.77	\$ 65,814.40	\$ 221,413.28		
1.1.1	Project Coordination (General)	378	246	\$ 51,935.52	0	\$ -	0	\$ -	132	\$ 21,583.32	0	\$ -	0	\$ -	0	\$ -	\$ 73,518.64	\$ 5,881.51	\$ 3,251.49	\$ 730.51	\$ 17,536.24								
1.1.2	Final Design Kick-off Meeting	17	6	\$ 1,266.72	0	\$ -	0	\$ -	9	\$ 1,471.59	1	\$ 140.59	1	\$ 120.86	0	\$ -	\$ 2,999.76	\$ 239.98	\$ 300.36	\$ 179.26	\$ 629.00	\$ 577.80	\$ 401.23	\$ 182.63	\$ 2,270.28				
1.1.3	Field Meeting	20	5	\$ 1,055.60	0	\$ -	0	\$ -	5	\$ 817.55	5	\$ 702.95	5	\$ 604.30	0	\$ -	\$ 3,180.40	\$ 254.43	\$ 339.25	\$ 930.01	\$ 1,444.50	\$ 1,344.17	\$ 4,057.93						
1.1.4	Stakeholder /Progress Meeting	54	18	\$ 3,800.16	0	\$ -	0	\$ -	36	\$ 5,886.36	0	\$ -	0	\$ -	0	\$ -	\$ 9,686.52	\$ 774.92	\$ 3,604.31			\$ 1,522.80	\$ 2,433.50	\$ 7,560.61					
1.1.5	Public Meeting	12	6	\$ 1,266.72	0	\$ -	0	\$ -	6	\$ 981.06	0	\$ -	0	\$ -	0	\$ -	\$ 2,247.78	\$ 179.26	\$ 678.50			\$ 2,851.20	\$ 757.06	\$ 4,286.76					
1.1.6	Consultant Team Meeting	54	18	\$ 3,800.16	0	\$ -	0	\$ -	18	\$ 2,943.18	12	\$ 1,687.08	6	\$ 725.16	0	\$ -	\$ 9,155.58	\$ 732.45	\$ 1,043.28	\$ 1,802.15	\$ 1,075.62	\$ 2,790.03	\$ 1,522.80	\$ 2,019.21	\$ 182.63	\$ 10,435.72			
1.1.7	Utility Coordination Meeting	12	3	\$ 633.36	0	\$ -	0	\$ -	6	\$ 981.06	3	\$ 421.77	0	\$ -	0	\$ -	\$ 2,036.19	\$ 162.90											
1.1.8	Drexel Bridge Coordination Meeting	28	8	\$ 1,688.96	0	\$ -	0	\$ -	20	\$ 3,270.20	0	\$ -	0	\$ -	0	\$ -	\$ 4,959.16	\$ 396.73	\$ 600.72									\$ 600.72	
1.2	Project Schedule	16	12	\$ 2,533.44	0	\$ -	0	\$ -	4	\$ 654.04	0	\$ -	0	\$ -	0	\$ -	\$ 3,187.48	\$ 255.00											
1.3	Public Participation	43	8	\$ 1,688.96	0	\$ -	0	\$ -	35	\$ 5,722.85	0	\$ -	0	\$ -	0	\$ -	\$ 7,411.81	\$ 592.94				\$ 1,860.02	\$ 11,934.00				\$ 13,794.02		
1.5	Miscellaneous Project Graphics	60	5	\$ 1,055.60	0	\$ -	0	\$ -	10	\$ 1,635.10	20	\$ 2,811.80	25	\$ 3,021.50	0	\$ -	\$ 8,524.00	\$ 681.92	\$ 1,737.22									\$ 1,737.22	
1.6	Drexel Road Bridge Coordination	93	45	\$ 9,500.40	0	\$ -	0	\$ -	40	\$ 6,540.40	8	\$ 1,124.72	0	\$ -	0	\$ -	\$ 17,165.52	\$ 1,373.24	\$ 86.94	\$ 1,879.93		\$ 1,568.03					\$ 3,534.90		
<b>2.0 SURVEY, MAPPING AND RIGHT-OF-WAY</b>		81	6	\$ 1,266.72	0	\$ -	0	\$ -	30	\$ 4,905.30	35	\$ 4,920.65	10	\$ 1,208.60	0	\$ -	\$ 12,301.27	\$ 984.10	\$ -	\$ 68,135.64	\$ -	\$ 8,483.40	\$ -	\$ -	\$ 76,619.04	\$ 89,904.41			
2.1	Field Survey (Boundary, right-of-way, and topography survey)	11	1	\$ 211.12	0	\$ -	0	\$ -	3	\$ 490.53	7	\$ 984.13	0	\$ -	0	\$ -	\$ 1,685.78	\$ 134.86		\$ 32,640.11								\$ 32,640.11	
2.2	Conditions of Title	8	1	\$ 211.12	0	\$ -	0	\$ -	7	\$ 1,144.57	0	\$ -	0	\$ -	0	\$ -	\$ 1,355.69	\$ 108.46		\$ 2,949.43								\$ 2,949.43	
2.3	Plot Identified Easements (Alta Survey)	8	1	\$ 211.12	0	\$ -	0	\$ -	7	\$ 1,144.57	0	\$ -	0	\$ -	0	\$ -	\$ 1,355.69	\$ 108.46		\$ 10,809.85								\$ 10,809.85	
2.4	Miscellaneous Spot Survey	34	1	\$ 211.12	0	\$ -	0	\$ -	8	\$ 1,308.08	20	\$ 2,811.80	5	\$ 604.30	0	\$ -	\$ 4,935.30	\$ 394.82		\$ 3,787.30								\$ 3,787.30	
2.5	Invasive Species Mapping	9	1	\$ 211.12	0	\$ -	0	\$ -	3	\$ 490.53	5	\$ 702.95	0	\$ -	0	\$ -	\$ 1,404.60	\$ 112.37		\$ 6,583.85		\$ 5,383.80			\$ 11,967.65				
2.6	Native Plant Mapping	11	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	5	\$ 604.30	0	\$ -	\$ 1,564.21	\$ 125.14		\$ 11,365.10		\$ 3,099.60			\$ 14,464.70				
<b>3.0 HYDROLOGY AND HYDRAULICS</b>		76	27	\$ 5,700.24	0	\$ -	0	\$ -	40	\$ 6,540.40	9	\$ 1,265.31	0	\$ -	0	\$ -	\$ 13,505.95	\$ 1,080.48		\$ 114,862.88	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 114,862.88	\$ 129,443.31
3.1	Initial Hydrologic & Hydraulic (H&H) Report	35	12	\$ 2,533.44	0	\$ -	0	\$ -	20	\$ 3,270.20	3	\$ 421.77	0	\$ -	0	\$ -	\$ 6,225.41	\$ 498.03		\$ 52,217.33								\$ 52,217.33	
3.2	Final H&H Report	28	10	\$ 2,111.20	0	\$ -	0	\$ -	15	\$ 2,452.65	3	\$ 421.77	0	\$ -	0	\$ -	\$ 4,985.62	\$ 398.85		\$ 53,474.91								\$ 53,474.91	
3.3	H&H Report Addendum	13	5	\$ 1,055.60	0	\$ -	0	\$ -	5	\$ 817.55	3	\$ 421.77	0	\$ -	0	\$ -	\$ 2,294.92	\$ 183.59		\$ 9,170.64								\$ 9,170.64	
<b>4.0 FEMA COMPLIANCE / COORDINATION</b>		25	9	\$ 1,900.08	0	\$ -	0	\$ -	9	\$ 1,471.59	7	\$ 984.13	0	\$ -	0	\$ -	\$ 4,355.80	\$ 348.46		\$ 4,764.54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,739.72	\$ 17,443.98
4.1	CLOMR Preparation	3	0	\$ -	0	\$ -	0	\$ -	0	\$ -	3	\$ 421.77	0	\$ -	0	\$ -	\$ 421.77	\$ 33.74											
4.2	Post Construction Mapping (LOMR)	3	0	\$ -																									

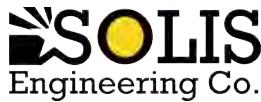
**Solis Engineering Co., LLC (SBE)**

## **HOURS DERIVATION**

1/23/2026

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 211.12	Senior A/E	\$ 208.02	Project Manager	\$ 184.83	A/E	\$ 163.51	Designer	\$ 140.59	CADD	\$ 120.86	Clerical / Admin	\$ 85.32	Total Labor Cost	8% Profit	ConformaTech (SBE)	CMG Drainage Engineering	Alta Survey, LLC	Structural Concepts, Inc.	Wilder Landscape Architects (SBE)	Tierra Right-of-Way Ltd.	T2 Utilities		Total Task
	(2) Plan & Profile - Outfall Channel From Northern Curb Depression On Calle Santa Cruz	2	20	2	\$ 422.24	0	\$ -	0	\$ -	4	\$ 654.04	6	\$ 843.54	8	\$ 966.88	0	\$ -	\$ 2,886.70	\$ 230.94								\$ -	\$ -
	(2) Plan & Profile - Channel From Exist (2) 24" CMP On Calle Santa Cruz	2	20	2	\$ 422.24	0	\$ -	0	\$ -	4	\$ 654.04	6	\$ 843.54	8	\$ 966.88	0	\$ -	\$ 2,886.70	\$ 230.94								\$ -	\$ -
	(2) Plan & Profile - Valencia Wash Soil Cement Protection	2	20	2	\$ 422.24	0	\$ -	0	\$ -	4	\$ 654.04	6	\$ 843.54	8	\$ 966.88	0	\$ -	\$ 2,886.70	\$ 230.94								\$ -	\$ -
	<b>PAVED PATHWAY PLANS</b>																											
	(1) Summary Sheet - Signing	1	10	2	\$ 422.24	0	\$ -	0	\$ -	3	\$ 490.53	4	\$ 562.36	1	\$ 120.86	0	\$ -	\$ 1,585.99	\$ 127.68								\$ -	\$ -
	(1) General Notes - Signing & Pavement Markings	1	8	2	\$ 422.24	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	1	\$ 120.86	0	\$ -	\$ 1,291.89	\$ 103.35								\$ -	\$ -
	(10) Plan & Profile - Multiuse Pathway (Including Bridge Profile) (Including Signing & Striping)	10	95	10	\$ 2,111.20	0	\$ -	0	\$ -	25	\$ 4,087.75	35	\$ 4,920.65	25	\$ 3,021.50	0	\$ -	\$ 14,141.10	\$ 1,131.29								\$ -	\$ -
	<b>DETAIL SHEETS</b>																											
	(1) Detail Sheet - Slope Paving Bridge Approaches	1	11	1	\$ 211.12	0	\$ -	0	\$ -	3	\$ 490.53	4	\$ 562.36	3	\$ 362.58	0	\$ -	\$ 1,826.59	\$ 130.13								\$ -	\$ -
	(1) Detail Sheet - Bridge Approach Handrail (H=52-inch)	1	8	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	2	\$ 241.72	0	\$ -	\$ 1,201.63	\$ 96.13								\$ -	\$ -
	(1) Detail Sheet - Stabilized Berm	1	11	1	\$ 211.12	0	\$ -	0	\$ -	3	\$ 490.53	4	\$ 562.36	3	\$ 362.58	0	\$ -	\$ 1,826.59	\$ 130.13								\$ -	\$ -
	(1) Detail Sheet - Concrete Grade Control	1	11	1	\$ 211.12	0	\$ -	0	\$ -	3	\$ 490.53	4	\$ 562.36	3	\$ 362.58	0	\$ -	\$ 1,826.59	\$ 130.13								\$ -	\$ -
	(1) Detail Sheet - Fencing Under Bridge Abutments	1	11	1	\$ 211.12	0	\$ -	0	\$ -	3	\$ 490.53	4	\$ 562.36	3	\$ 362.58	0	\$ -	\$ 1,826.59	\$ 130.13								\$ -	\$ -
	(1) Detail Sheet - New Soil Cement to Exist Soil Cement (2 locations)	1	8	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	2	\$ 241.72	0	\$ -	\$ 1,201.63	\$ 96.13								\$ -	\$ -
	(1) Detail Sheet - New Soil Cement to Exist Gabions	1	11	1	\$ 211.12	0	\$ -	0	\$ -	3	\$ 490.53	4	\$ 562.36	3	\$ 362.58	0	\$ -	\$ 1,826.59	\$ 130.13								\$ -	\$ -
	(1) Detail Sheet - New Soil Cement to Upper Plating (At SC)	1	8	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	2	\$ 241.72	0	\$ -	\$ 1,201.63	\$ 96.13								\$ -	\$ -
	(1) Detail Sheet - New Soil Cement to Lower Flow Bank Protection and Upper Plating (At SC)	1	8	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	2	\$ 241.72	0	\$ -	\$ 1,201.63	\$ 96.13								\$ -	\$ -
	(1) Detail Sheet - New Soil Cement to Upper Plating (At Valencia Wash)	1	8	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	2	\$ 241.72	0	\$ -	\$ 1,201.63	\$ 96.13								\$ -	\$ -
	(1) Detail Sheet - Concrete Spillways	1	8	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	2	\$ 241.72	0	\$ -	\$ 1,201.63	\$ 96.13								\$ -	\$ -
	(1) Detail Sheet - Interpretive Sign	1	5	1	\$ 211.12	0	\$ -	0	\$ -	1	\$ 163.51	2	\$ 281.18	1	\$ 120.86	0	\$ -	\$ 776.67	\$ 62.13								\$ -	\$ -
	<b>CROSS SECTIONS</b>																											
	(12) Cross Sections at 100-ft intervals (5 per sheet)	12	60	7	\$ 1,477.84	0	\$ -	0	\$ -	11	\$ 1,798.61	18	\$ 2,530.62	24	\$ 2,900.64	0	\$ -	\$ 8,707.71	\$ 696.62								\$ -	\$ -
	<b>COST ESTIMATE &amp; SPECIAL PROVISIONS</b>																											
	Opinion of Probable Cost / Bid Tabulation	54	9	\$ 1,900.08	0	\$ -	0	\$ -	11	\$ 1,798.61	20	\$ 2,811.80	14	\$ 1,692.04	0	\$ -	\$ 8,202.53	\$ 656.20								\$ 2,241.00	\$ 2,241.00	
	Special Provisions	135	60	\$ 12,667.20	0	\$ -	0	\$ -	50	\$ 8,175.50	25	\$ 3,514.75	0	\$ -	0	\$ -	\$ 24,357.45	\$ 1,948.60								\$ 4,228.20	\$ 4,228.20	
<b>11.3 100% Design Phase Plans</b>		1127	137	\$ 28,923.44	0	\$ -	0	\$ -	236	\$ 38,588.36	359	\$ 50,471.81	395	\$ 47,739.70	0	\$ -	\$ 165,723.31	\$ 13,257.86	\$ -	\$ -	\$ -	\$ -	\$ 19,723.81	\$ 20,115.00	\$ -	\$ -	\$ 39,838.81	\$ 218,819.98
	<b>GENERAL PLANS</b>																											\$ 35,934.61
	(1) Cover sheet, Survey Control, Index Sheet	1	6	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	0	\$ -	0	\$ -	\$ 959.91	\$ 76.79								\$ -	\$ -
	(2) General Notes, Earthwork Quantities, & Legend Sheet	2	13	1	\$ 211.12	0	\$ -	0	\$ -	4	\$ 654.04	3	\$ 421.77	5	\$ 604.30	0	\$ -	\$ 1,891.23	\$ 151.30								\$ -	\$ -
	(3) Typical Sections Sheets	3	24	3	\$ 633.36	0	\$ -	0	\$ -	8	\$ 1,308.08	8	\$ 1,124.72	5	\$ 604.30	0	\$ -	\$ 3,670.46	\$ 293.64								\$ -	\$ -
	(3) Santa Cruz Riverbank Survey Control Sheets	3	40	4	\$ 844.48	0	\$ -	0	\$ -	10	\$ 1,635.10	12	\$ 1,687.08	14	\$ 1,692.04	0	\$ -	\$ 5,858.70	\$ 468.70								\$ -	\$ -
	(1) Summary Sheet - Pipe Culvert	1	6	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	0	\$ -	0	\$ -	\$ 959.91	\$ 76.79								\$ -	\$ -
	(1) Summary Sheet - RCBC	1	6	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	0	\$ -	0	\$ -	\$ 959.91	\$ 76.79								\$ -	\$ -
	<b>EAST BANK AND SITE PLANS (AND WEST BANK AT DREXEL BRIDGE APPROACH)</b>																											
	(3) Demolition Sheet (100 Scale)	3	17	2	\$ 422.24	0	\$ -	0	\$ -	4	\$ 654.04	5	\$ 702.95	6	\$ 725.16	0	\$ -	\$ 2,504.39	\$ 200.35								\$ -	\$ -
	(3) Construction Access / Staging Yard / Maintenance of Traffic Plans	3	21	2	\$ 422.24	0	\$ -	0	\$ -	5	\$ 817.55	8	\$ 1,124.72	6	\$ 725.16	0	\$ -	\$ 3,089.67	\$ 247.17								\$ -	\$ -
	(12) Plan & Profile - East Bank Soil Cement Protection	12	116	11	\$ 2,322.32	0	\$ -	0	\$ -	22	\$ 3,597.22	36	\$ 5,061.24	47	\$ 5,680.42	0	\$ -	\$ 16,661.20	\$ 1,332.90								\$ -	\$ -
	(3) Plan & Profile - East Bank Soil Cement Plating	3	29	3	\$ 633.36	0	\$ -	0	\$ -	5	\$ 817.55	9	\$ 1,265.31	12	\$ 1,450.32	0	\$ -	\$ 4,166.54	\$ 333.32								\$ -	\$ -
	(1) Plan & Profile - West Bank Soil Cement Protection	1	10	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	4	\$ 483.44	0	\$ -	\$ 1,443.35	\$ 115.47								\$ -	\$ -
	(1) Site Construction Plan - West Pathway (at Drexel / Mahan Drive)	1	10	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	4	\$ 483.44	0	\$ -	\$ 1,443.35	\$ 115.47								\$ -	\$ -
	(1) Site Construction Plan - East Pathway (at Drexel / Calle Santa Cruz)	1	10	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	3	\$ 421.77	4	\$ 483.44	0	\$ -	\$ 1,443.35	\$ 115.47								\$ -	\$ -
	(5) Site Construction Plans - East Riverbank to Calle Santa Cruz	5	49	5	\$ 1,055.60	0	\$ -	0	\$ -	9	\$ 1,471.59	15	\$ 2,108.85	20	\$ 2,417.20	0	\$ -	\$ 7,053.24	\$ 564.26								\$ -	\$ -
	(18) Site Staking Plans - East Riverbank to Calle Santa Cruz	18	288	27	\$ 5,700.24	0	\$ -	0	\$ -	54	\$ 8,829.54																	

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 211.12	Senior A/E	\$ 208.02	Project Manager	\$ 184.83	A/E	\$ 163.51	Designer	\$ 140.59	CADD	\$ 120.86	Clerical / Admin	\$ 85.32	Total Labor Cost	8% Profit	ConformaTech (SBE)	CMG Drainage Engineering	Alta Survey, LLC	Structural Concepts, Inc.	Wilder Landscape Architects (SBE)	Tierra Right-of-Way Lmtd.	T2 Utilities		Total Task		
	Opinion of Probable Cost / Bid Tabulation		54	9	\$ 1,900.08	0	\$ -	0	\$ -	11	\$ 1,798.61	20	\$ 2,811.80	14	\$ 1,692.04	0	\$ -	\$ 8,202.53	\$ 656.20						\$ 2,241.00		\$ 2,241.00			
	Special Provisions		44	21	\$ 4,433.52	0	\$ -	0	\$ -	14		9		0		0		\$ 7,987.97	\$ 639.04						\$ 1,663.20		\$ 1,663.20			
<b>11.5</b>	<b>Unforeseen Work</b>		<b>200</b>	<b>50</b>	<b>\$ 10,556.00</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>50</b>	<b>\$ 8,175.50</b>	<b>50</b>	<b>\$ 7,029.50</b>	<b>50</b>	<b>\$ 6,043.00</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 31,804.00</b>	<b>\$ 2,544.32</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 34,348.32</b>			
			200	50	\$ 10,556.00		\$ -		\$ -	50	\$ 8,175.50	50		50				\$ 31,804.00	\$ 2,544.32											
<b>12.0</b>	<b>QUALITY CONTROL REVIEW</b>		<b>119</b>	<b>71</b>	<b>\$ 14,989.52</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>48</b>	<b>\$ 7,848.48</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 22,838.00</b>	<b>\$ 1,827.04</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,402.61</b>	<b>\$ -</b>	<b>\$ 1,290.04</b>	<b>\$ 7,144.20</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,836.85</b>	<b>\$ 35,501.89</b>	
12.1	Initial Hydrologic & Hydraulic (H&H) Report		6	3	\$ 633.36	0	\$ -	0	\$ -	3	\$ 490.53	0	\$ -	0	\$ -	0	\$ -	\$ 1,123.89	\$ 89.91											\$ 1,201.31
12.2	Final Hydrologic & Hydraulic (H&H) Report		6	3	\$ 633.36	0	\$ -	0	\$ -	3	\$ 490.53	0	\$ -	0	\$ -	0	\$ -	\$ 1,123.89	\$ 89.91											\$ 1,201.30
12.3	H&H Report Addendum		3	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	0	\$ -	0	\$ -	0	\$ -	\$ 538.14	\$ 43.05											\$ -
12.4	Biological Evaluation		3	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	0	\$ -	0	\$ -	0	\$ -	\$ 538.14	\$ 43.05											\$ -
12.5	Endangered Species Act (ESA) Compliance Letter		3	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	0	\$ -	0	\$ -	0	\$ -	\$ 538.14	\$ 43.05											\$ -
12.6	Geotechnical Investigation (Including Soil Cement Stability Analysis)		4	2	\$ 422.24	0	\$ -	0	\$ -	2	\$ 327.02	0	\$ -	0	\$ -	0	\$ -	\$ 749.26	\$ 59.94											\$ -
12.7	Assist in obtaining the Section 404 permit for the project		4	2	\$ 422.24	0	\$ -	0	\$ -	2	\$ 327.02	0	\$ -	0	\$ -	0	\$ -	\$ 749.26	\$ 59.94											\$ -
12.8	Provide Preliminary Initial Site Assessment		3	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	0	\$ -	0	\$ -	0	\$ -	\$ 538.14	\$ 43.05											\$ -
12.9	Provide Lead-based paint and asbestos testing report		3	1	\$ 211.12	0	\$ -	0	\$ -	2	\$ 327.02	0	\$ -	0	\$ -	0	\$ -	\$ 538.14	\$ 43.05											\$ -
12.10	Initial Feasibility Report		16	9	\$ 1,900.08	0	\$ -	0	\$ -	7	\$ 1,144.57	0	\$ -	0	\$ -	0	\$ -	\$ 3,044.65	\$ 243.57											\$ 1,028.70
12.11	Final Feasibility Report		16	9	\$ 1,900.08	0	\$ -	0	\$ -	7	\$ 1,144.57	0	\$ -	0	\$ -	0	\$ -	\$ 3,044.65	\$ 243.57											\$ 1,028.70
12.12	30% Design Phase Plans		14	10	\$ 2,111.20	0	\$ -	0	\$ -	4	\$ 654.04	0	\$ -	0	\$ -	0	\$ -	\$ 2,765.24	\$ 221.22											\$ 1,479.60
12.13	60% Design Phase Plans		19	15	\$ 3,166.80	0	\$ -	0	\$ -	4	\$ 654.04	0	\$ -	0	\$ -	0	\$ -	\$ 3,820.84	\$ 305.67											\$ 2,663.63
12.15	100% - Final PS&E Plans		19	13	\$ 2,744.56	0	\$ -	0	\$ -	6	\$ 981.06	0	\$ -	0	\$ -	0	\$ -	\$ 3,725.62	\$ 298.05											\$ 2,233.61
<b>13.0</b>	<b>PROJECT MANAGEMENT</b>		<b>131</b>	<b>76</b>	<b>\$ 16,045.12</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>19</b>	<b>\$ 3,106.69</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>36</b>	<b>\$ 3,071.52</b>	<b>\$ 22,223.33</b>	<b>\$ 1,777.87</b>	<b>\$ 1,515.24</b>	<b>\$ 8,820.49</b>	<b>\$ -</b>	<b>\$ 3,041.98</b>	<b>\$ -</b>	<b>\$ 1,190.25</b>	<b>\$ 713.93</b>	<b>\$ 15,281.89</b>	<b>\$ 39,283.09</b>		
13.1	Perform invoicing, budget review, and subconsultant invoice review		110	60	\$ 12,667.20	0	\$ -	0	\$ -	14		0		0		36		\$ 18,027.86	\$ 1,442.23	\$ 1,515.24	\$ 8,820.49		\$ 3,041.98		\$ 1,190.25	\$ 713.93	\$ 15,281.89			
13.2	Change Control Log		21	16	\$ 3,377.92	0	\$ -	0	\$ -	5		0		0		0		\$ 4,195.47	\$ 335.64										\$ -	
	<b>Totals</b>		5239	1169	\$ 246,799.28	0	\$ -	0	\$ -	1399	\$ 228,750.49	1404	\$ 197,388.36	1231	\$ 148,778.66	36	\$ 3,071.52	\$ 824,788.31	\$ 65,983.06	\$ 40,664.10	\$ 164,656.75	\$ 69,390.52	\$ 67,980.69	\$ 125,369.10	\$ 29,865.22	\$ 21,258.44	\$ 519,184.82	\$ 1,409,956.19		



FEE SUMMARY  
24076PFC - DREXEL TO VALENCIA EAST BANK RESTORATION  
January 23, 2026

**Solis Services**

<b>Task No.</b>	<b>Description</b>		<b>Task Total</b>	<b>8% Profit</b>	<b>Expenses</b>
1.0	PROJECT COORDINATION	\$	144,073.04	\$ 11,525.84	
2.0	SURVEY, MAPPING AND RIGHT-OF-WAY	\$	12,301.27	\$ 984.10	
3.0	HYDROLOGY AND HYDRAULICS	\$	13,505.95	\$ 1,080.48	
4.0	FEMA COMPLIANCE / COORDINATION	\$	4,355.80	\$ 348.46	
5.0	GEOTECHNICAL	\$	6,417.62	\$ 513.41	
6.0	UTILITIES COORDINATION	\$	40,797.66	\$ 3,263.81	
7.0	404 PERMITTING	\$	3,862.56	\$ 309.00	
8.0	CULTURAL RESOURCES COORDINATION	\$	8,385.52	\$ 670.84	
9.0	HAZARDOUS MATERIALS	\$	3,747.60	\$ 299.81	
10.0	FEASIBILITY REPORT	\$	77,543.91	\$ 6,203.51	
11.1	30% Design Phase Plans	\$	74,227.08	\$ 5,938.17	
11.2	60% Design Phase Plans	\$	192,981.66	\$ 15,438.53	
11.3	100% Design Phase Plans	\$	165,723.31	\$ 13,257.86	
11.5	Unforeseen Work	\$	31,804.00	\$ 2,544.32	
12.0	QUALITY CONTROL REVIEW	\$	22,838.00	\$ 1,827.04	
13	PROJECT MANAGEMENT	\$	22,223.33	\$ 1,777.87	
		\$	<b>824,788.31</b>	\$ <b>65,983.06</b>	

**Sub Consultant Services**

ConformaTech (SBE)	\$ 26,220.00	\$ 2,097.60	
CMG Drainage Engineering	\$ 152,459.95	\$ 12,196.80	
Alta Survey, LLC	\$ 50,163.37	\$ 4,013.07	
Structural Concepts, Inc. (SBE)	\$ 62,945.08	\$ 5,035.61	
Wilder Landscape Architects (SBE)	\$ 115,582.50	\$ 9,246.60	
Tierra Right-of-Way Lmtd.	\$ 27,652.98	\$ 2,212.24	
T2 Utilities	\$ 13,123.32	\$ 1,049.87	
	\$ <b>448,147.20</b>	\$ <b>35,851.79</b>	

**Expenses**

<b>Solis (SBE)</b>			
Reproductions (34x44 Color Print Mounted on Foam Board)			\$ 789.16
Reproductions (Color Roll Plot 36"x144")			\$ 117.40
Misc. Reproductions			\$ 5,000.00
<b>ConformaTech (SBE)</b>			
<i>Outside Expenses</i>			\$ 12,346.50
<b>Alta Survey, LLC</b>			
<i>Direct Expenses</i>			\$ 15,214.08
<b>Wilder Landscape Architects (SBE)</b>			
<i>Direct Expenses</i>			\$ 540.00
<b>T2 Utilities</b>			
<i>Direct Expenses</i>			\$ 3,440.00
<i>Outside Expenses</i>			\$ 3,645.25
			\$ <b>41,092.39</b>

<b>Contract Subtotals</b>	\$ 1,272,935.51	\$ 101,834.85	\$ 41,092.39
<hr/>			
<b>Contract Total</b>			\$ <b>1,415,862.75</b>

## Rick Solis

---

**From:** Jeff Dana  
**Sent:** Wednesday, January 14, 2026 1:54 PM  
**To:** Rick Solis; Marcel Chamberlain  
**Subject:** FW: Repro estimate

---

**From:** Jeff Dana  
**Sent:** Friday, December 19, 2025 12:33 PM  
**To:** Rick Solis <rick.solis@solisengco.com>  
**Subject:** Repro estimate

Rick, see below.

---

**From:** Erin Castner <[ECastner@reproductionsinc.com](mailto:ECastner@reproductionsinc.com)>  
**Sent:** Friday, December 19, 2025 10:48 AM  
**To:** Jeff Dana <[jeff.dana@solisengco.com](mailto:jeff.dana@solisengco.com)>  
**Subject:** RE: New submission from Request a Quote

You don't often get email from [ecastner@reproductionsinc.com](mailto:ecastner@reproductionsinc.com). [Learn why this is important](#)

Good Morning Jeff,

Thanks for contacting us.

A color roll plot 36"x144" on 20# bond will be **\$36 + tax.**

A 34x44 color print mounted on foam board will be **\$121.00 + tax.**

Happy to answer any additional questions you have.

The Solis Direct Expense  
includes 8.7% tax

**Erin Castner**

Customer Relations Manager 

**Reproductions, Inc.**

*Tucson's Local Printing Solution*

[www.reproductionsinc.com](http://www.reproductionsinc.com)

234 E. 6<sup>th</sup> Street  
Tucson, AZ. 85705  
P: 520.622.7747  
C: 520.419.2542

*In office hours are M-F 8:00am to 4:00 pm*

**From:** [info@reproductionsinc.com](mailto:info@reproductionsinc.com) <[info@reproductionsinc.com](mailto:info@reproductionsinc.com)>  
**Sent:** Thursday, December 18, 2025 2:13 PM  
**To:** Erin Castner <[ECastner@reproductionsinc.com](mailto:ECastner@reproductionsinc.com)>; Stephen Buslig <[SBuslig@reproductionsinc.com](mailto:SBuslig@reproductionsinc.com)>  
**Subject:** New submission from Request a Quote

<b>Name</b>
Jeff Dana
<b>Select Service</b>
Mounting
<b>Phone</b>
(520) 207-0742
<b>Your Email</b>
<a href="mailto:jeff.dana@solisengco.com">jeff.dana@solisengco.com</a>
<b>Your Message</b>
Could I get an estimate for the following. 1. one 3' x 12' color roll plot 2. one 34"x44" color print mounted on foam board
Thanks- Jeff

# **SUB-CONSULTANT PROPOSALS**

# **CONFORMATECH (SBE)**

## **PROPOSAL**

CTEC Project No.: Cost Submittal

**Date:** January 15, 2026

**Client:** Solis Engineering

239 N Church Ave

Tucson, AZ 85701

United States

**Attn:** Rick Solis, P.E., Civil

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**RE:** Cost Submittal

**Project Name:** Design Engineering Services for Drexel to Valencia East Bank Restoration

**Project Number:** 24076PFC

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Dear Mr. Solis,

ConformaTech, Inc. (CTEC) is pleased to submit this **Cost Submittal** for geotechnical engineering services and lead and asbestos testing associated with the *Design Engineering Services for Drexel to Valencia East Bank Restoration* project (Project No. 24076PFC), located along the east bank and a portion of the west bank of the Santa Cruz River between Drexel Road and Valencia Road. This cost submittal has been prepared in support of the project scope described in the document titled **“24076PFC (DVEBR) – Scope of Work – SolisEDIT\_2025-12-16.”**

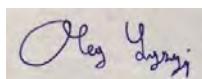
Lead and asbestos testing will be performed at up to three (3) locations. Two of the three locations will be at the existing foundation and existing drainage pipe.

The detailed cost breakdown for CTEC's services is provided in the spreadsheet titled **“SCR Drexel to Valencia Geotechnical Costing,”** which is incorporated herein by reference.

The **total cost for CTEC services**, inclusive of the estimated level of effort described in the referenced scope of work, is **\$40,664.10.**

Please do not hesitate to contact our office should you have any questions regarding this cost submittal or require additional information. We appreciate the opportunity to support Solis Engineering on this project.

Respectfully submitted,  
**ConformaTech, Inc.**



Oleg B. Lysyj, P.E.  
Geotechnical Engineer

ConformaTech, Inc.  
1425 East Apache Park Place  
Tucson, Arizona 85714  
phone 1.520.573.2045  
fax 1.520.573.0528

**FEE SCHEDULE**  
**24076PFC - DREXEL TO VALENCIA EAST BANK RESTORATION**  
**Design Engineering Services**  
**Conformatech, Inc. (SBE)**  
**January 15, 2026**

**Direct Labor:**

<u>Classification</u>	<u>Estimated Hours</u>	<u>Direct+OH Labor Rate</u>	<u>Direct Labor Rate</u>	<u>Loaded Labor Costs</u>
Senior Environmental Professional	40	\$92.00	\$40.00	\$3,680.00
Senior A/E	0	\$92.00	\$40.00	\$0.00
Project Manager	140	\$80.50	\$35.00	\$11,270.00
A/E	0	\$80.50	\$35.00	\$0.00
Designer	0	\$80.50	\$35.00	\$0.00
Lab / Field Tech	180	\$57.50	\$25.00	\$10,350.00
Clerical / Admin	20	\$46.00	\$20.00	\$920.00
<b>Direct Labor (DL)</b>	<b>380</b>			<b>\$26,220.00</b>

**Estimated Direct Expenses**

<u>Type</u>	<u>Amount</u>	<u>Unit Costs</u>	<u>Cost</u>
N/A	0	\$0.00	\$0.00
N/A	0	\$0.00	\$0.00
N/A	0	\$0.00	\$0.00

**Total of Direct Expenses** **\$0.00**

**Estimated Outside Expenses**

<u>Firm</u>	<u>Service</u>		<u>Cost</u>
Contract Drilling / Excavating	1	\$12,000.00	\$12,000.00
Lead Testing Lab Work	9	\$16.50	\$148.50
Asbestos Testing Lab Work	9	\$22.00	\$198.00

**Total of Outside Expenses** **\$12,346.50**

**Fixed Fee (8% of Labor Cost)**

**\$2,097.60**

**Total Estimated Costs**

**\$40,664.10**

Task No.	Description	No. of Sheets	Total Hours	Senior Environmental Professional	\$ 92.00	Senior A/E	\$ 92.00	Project Manager	\$ 80.50	A/E	\$ 80.50	Designer	\$ 80.50	Lab / Field Tech	\$ 57.50	Clerical / Admin	\$ 46.00	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task		
					Per / Hour				Per / Hour				Per / Hour				Per / Hour						
					Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount					
<b>2.0</b>	<b>PROJECT COORDINATION</b>		<b>13</b>	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>13</b>	\$ <b>1,046.50</b>	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ <b>1,046.50</b>	\$ <b>83.72</b>	\$ -	<b>\$ 1,130.22</b>	
1.1.1	Project Coordination (General)		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.2	Final Design Kick-off Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.3	Field Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.4	Stakeholder /Progress Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.5	Public Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.6	Consultant Team Meeting		12	0	\$ -	0	\$ -	12	\$ <b>966.00</b>	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 966.00	\$ <b>77.28</b>		
1.1.7	Utility Coordination Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.8	Drexel Bridge Coordination Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.2	Project Schedule		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.3	Public Participation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.5	Miscellaneous Project Graphics		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.6	Drexel Road Bridge Coordination		1	0	\$ -	0	\$ -	1	\$ <b>80.50</b>	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 80.50	\$ <b>6.44</b>		
<b>5.0</b>	<b>GEOTECHNICAL</b>	<b>311</b>	<b>20</b>	<b>\$ 1,840.00</b>	<b>0</b>	<b>\$ -</b>	<b>111</b>	<b>\$ 8,935.50</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>180</b>	<b>\$ 10,350.00</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 21,125.50</b>	<b>\$ 1,690.04</b>	<b>\$ -</b>	<b>\$ 22,815.54</b>			
5.1	Cultural Clearance for Geotechnical Investigation		1	0	\$ -	0	\$ -	1	\$ <b>80.50</b>	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 80.50	\$ <b>6.44</b>		
5.2	Geotechnical Investigation (Including Soil Cement Stability Analysis)		310	20	\$ <b>1,840.00</b>	0	\$ -	110	\$ <b>8,855.00</b>	0	\$ -	0	\$ -	180	\$ <b>10,350.00</b>	0	\$ -	\$ 21,045.00	\$ <b>1,683.60</b>				
<b>9.0</b>	<b>HAZARDOUS MATERIALS</b>	<b>20</b>	<b>20</b>	<b>\$ 1,840.00</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 1,840.00</b>	<b>\$ 147.20</b>	<b>\$ -</b>	<b>\$ 12,346.50</b>	<b>\$ 14,333.70</b>		
9.1	Provide Preliminary Initial Site Assessment		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ 12,000.00		
9.2	Provide Lead-based paint and asbestos testing report		20	20	\$ <b>1,840.00</b>	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,840.00	\$ <b>147.20</b>	\$ -	\$ 346.50		
9.3	Incorporate PISA requirements into the special provisions		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>10.0</b>	<b>FEASIBILITY REPORT</b>	<b>10</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>10</b>	<b>\$ 805.00</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 805.00</b>	<b>\$ 64.40</b>	<b>\$ -</b>	<b>\$ 869.40</b>	
10.1.1	Initial Feasibility Report		5	0	\$ -	0	\$ -	5	\$ <b>402.50</b>	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 402.50	\$ <b>32.20</b>		
10.1.2	Final Feasibility Report		5	0	\$ -	0	\$ -	5	\$ <b>402.50</b>	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 402.50	\$ <b>32.20</b>		
10.1.3	10% Concept Plans																						
	(1) Cover sheet, Survey Control, Index Sheet		1	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Typical Sections Sheet		1	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(5) Site Construction Plans - East Riverbank to Calle Santa Cruz		5	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(6) Site Water Harvesting Methods-Strategies-Details For East Riverbank to Calle Santa Cruz		6	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(6) Cross Sections at 200-ft intervals		6	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	Plot Approximate Locations of Utilities in Pipe Networks (Civil 3D)		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	Opinion of Probable Cost / Bid Tabulation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>13.0</b>	<b>PROJECT MANAGEMENT</b>	<b>26</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>6</b>	<b>\$ 483.00</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>20</b>	<b>\$ 920.00</b>	<b>\$ 1,403.00</b>	<b>\$ 112.24</b>	<b>\$ -</b>	<b>\$ 1,515.24</b>			
13.1	Perform invoicing, budget review, and subconsultant invoice review		26	0	\$ -	0	\$ -	6	\$ <b>483.00</b>	0	\$ -	0	\$ -	0	\$ -	20		\$ 1,403.00	\$ <b>112.24</b>				
13.2	Change Control Log		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0		\$ -	\$ -	\$ -			
	<b>Totals</b>		<b>380</b>	<b>40</b>	<b>\$ 3,680.00</b>	<b>0</b>	<b>\$ -</b>	<b>140</b>	<b>\$ 11,270.00</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>180</b>	<b>\$ 10,350.00</b>	<b>20</b>	<b>\$ 920.00</b>	<b>\$ 26,220.00</b>	<b>\$ 2,097.60</b>	<b>\$ 12,346.50</b>	<b>\$ 40,664.10</b>		

# Southlands Engineering

P.O. Box 65017 Tucson, Arizona 85728  
1875 W. Gardner Lane, Tucson, Arizona 85705  
Phone: (520) 940-0472 . Fax: (520) 329-8998

**ROC No.: A-4 294073 | ADWR No.: 845 | AzBTR: 18921 | N.Mexico: WD-1746**



Mr. Oleg B. Lysyj, PE  
Geotechnical Engineer

## ConformaTech, Inc.

1425 East Apache Park Place  
Tucson, Arizona 85714

Date: 1/12/2026  
Proposal No.: P2602-003

## Cost Estimate for Geotechnical Engineering Services Santa Cruz River Valencia to Drexel

### SCOPE OF WORK

#### Scope: A Total of Ten (10) Boreholes

Ten (10) Borehole locations will be drilled as part of this drilling program.

- 5 x 30-feet boreholes on the river bank.
- 5 x test-pits to 10 feet in the wash.
- 5 borings to 5 feet along the path areas on the river bank.
- 3 infiltration tests at 2-feet depths on the river bank.

**Drilling Methods:** Boreholes will be drilled as follows:

- Hollow Stem Auger
- Perform infiltration testing in the upper 2-foot at each location.

**Sampling:** Assume Standard Penetrating Test (SPT) as follows:

- 2.5 and 5-feet interval sampling below ground surface (bgs)

**Borehole Abandonment:** All boreholes will be backfilled with auger cuttings.

**Equipment:** Utilizing a CME-75 Truck-Mounted Drill Rig

**Duration:** Estimated time on site is 3 days.

Include one (1) day of clearing access for the boreholes.

## Cost Derivation for Geotechnical Subsurface Investigation

Item	Quantity	Unit	Cost	Price
<b>HOLLOW STEM AUGER DRILLING COSTS</b>				
CME 75 HT Truck-Drill Rig: Hollow Stem Auger.				
Project Management	2.0	HOUR	\$ 120.00	\$ 240.00
Job Preparation (Materials & Equipment)	1.0	HOUR	\$ 195.00	\$ 195.00
Mobilization/Demobilization <sup>2</sup>	1.0	LUMP	\$ 1,425.00	\$ 1,425.00
ATV Transport (Low-Boy Transport)	0.0	EACH	\$ 1,850.00	\$ -
Shift Change (Dependent on Schedule)	0.0	HOUR	\$ 225.00	\$ -
<b>DRILLING RELATED COSTS</b>				
Daily Preparation	2.0	HOUR	\$ 195.00	\$ 390.00
Daily Travel/Daily Commute (Tucson to Site)	2.0	HOUR	\$ 195.00	\$ 390.00
Safety Meeting/Borehole Access/Site Set-Up	1.0	HOUR	\$ 195.00	\$ 195.00
On-Site Prep (Set-Up)	1.0	HOUR	\$ 195.00	\$ 195.00
Drilling: Hollow Stem Auger	24.0	HOUR	\$ 195.00	\$ 4,680.00
Rig and Equipment Move	1.0	HOUR	\$ 195.00	\$ 195.00
Site Clean-Up/Equipment Removal	0.0	HOUR	\$ 195.00	\$ -
<b>ASSOCIATED COSTS</b>				
Light Support Truck (Travel/Fuel Charge)	2.0	DAILY	\$ 225.00	\$ 450.00
ADWR Permit and Processing	0.0	EACH	\$ 300.00	\$ -
Client Directed Stand-By	0.0	HOUR	\$ 185.00	\$ -

## Estimated Drilling & Sampling Costs

\$ 8,355.00

## Cost Derivation for Backhoe-Clearing

Item	Quantity	Unit	Cost	Price
<b>BACKHOE EXCAVATION COSTS</b>				
CAT 420D RUBBER TIRED BACKHOE				
Project Management	0.0	HOUR	\$ 120.00	\$ -
Job Preparation (Materials & Equipment)	3.0	HOUR	\$ 130.00	\$ 390.00
Mobilization/Demobilization <sup>2</sup>	1.0	HOUR	\$ 650.00	\$ 650.00
Equipment Transport (Low-Boy Transport)	2.0	EACH	\$ 750.00	\$ 1,500.00
<b>DRILLING RELATED COSTS</b>				
Unload and Load Equipment	1.0	HOUR	\$ 130.00	\$ 130.00
Access Clearing for Drill Access	7.5	HOUR	\$ 130.00	\$ 975.00

## Estimated Drilling & Sampling Costs

\$ 3,645.00

## NOTES:

1. **Job Preparation:** includes time to inspect and prepare the equipment and materials that will be required to complete the investigation. For this particular project, it would consist of preparing multiple cutter heads and auger to complete the drilling investigation. The time also includes time spent to perform daily ADOT vehicle inspection prior to driving the drill rig to the project site.  
Time to prepare a health and safety plan has also been included as part of this preparation task.
2. **Mobilization/Demobilization:** includes time spent by the crew to travel from Tucson to the project site, including the mobilization of all materials and equipment.
3. **Drilling Time:** includes time spent to drill the assigned locations and SPT sampling including backfilling and restoring locations (including patching if necessary) to acceptable standards.
4. **Safety Meetings / Borehole Access / Move Drill Rig:** Includes time to move the drill rig between the borehole locations. It also accounts for the time that will be spent on a daily basis to conduct daily tail gate meetings and any safety audits that maybe conducted. This estimated time also includes time for site-specific safety training that may be conducted prior to commencing.
5. **Local Travel:** This is an estimated time for the crew to travel to and from the site on a daily basis once the project has commenced utilizing the support truck.
6. **Standby** time due to unreadiness of the borehole locations or 'Client' delays will be billed at the provided hourly rate, and has not been included in this cost estimate.

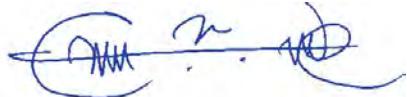
## ASSUMPTIONS:

1. **Conformatech** will coordinate all Blue Stake permits and verify that all utilities are marked and all conflicts resolved prior to completing the subsurface investigations. Southlands will be included on the Blue Stake request as a sub-contractor as required by State regulations. Southlands will not be liable for any damaged underground or overhead utilities.
2. **Conformtech** will coordinate and acquire all necessary permits that may be required to complete the proposed subsurface investigations.
3. Based on the information provided, **Conformatech** will coordinate and provide all traffic control or safety related accessories that will be required to complete the investigations.
4. This cost estimate assumes that accesss to the drill locations will require minimal efforts and will not require the use of additional materials or equipment. Any damage that may result to the Southlands' drilling equipment will be billed at cost plus 15 percent to replace or repair all damages.
5. Southlands will not dictate the location of drilled borehole, this is the responsibility of the 'Client', hence Southlands will not be held responsible for any damaged overhead and underground utilities that may occur as a result of drilling at a location as directed by the 'Client'. Once the work is scheduled, this proposal will be considered a legal binding document for conditions of the project.
6. If the project encounters difficulties beyond our control or if the scope of work is altered, Southlands reserves the right to renegotiate the price.

Southlands thanks you for the opportunity to provide you this cost estimate proposal. If you have any questions or need any clarifications regarding this cost estimate, or if we may be of any further assistance please do not hesitate to contact us at (520) 940-0472. We look forward to hearing from you soon.

Sincerely,

**SOUTHLANDS ENGINEERING, LLC**



David C. Mwewa, P.E.  
President/Principal Engineer  
[chushidm@southlandsengr.com](mailto:chushidm@southlandsengr.com)





Gerry Yarab  
Confomratech, Inc  
1425 E. Apache Park Pl.  
Tucson, AZ 85714

1/12/2026

Dear Mr. Yarab,

Thank you for your email requesting pricing. Again, please accept my apologies for my delayed response. Please refer to the following fee schedule.

**Silica**

Silica NIOSH 7500 3-5 day turnaround	\$85.00
Silica NIOSH 7500 24-hour turnaround	\$127.50

**Asbestos**

PLM 1-3 day turnaround	\$16.50
PLM RUSH turnaround	\$24.25
PLM URGENT turnaround	\$33.00
PLM with gravimetric reduction 3-5 day turnaround	\$100.00
PLM with gravimetric reduction RUSH turnaround	\$150.00
PLM CARB 435 1-3 day turnaround	\$85.00
PLM CARB 435 RUSH turnaround	\$127.50
PCM 24-hour turnaround	\$10.00
PCM RUSH turnaround	\$15.00
TEM air 24-hour turnaround	\$100.00
TEM air RUSH turnaround	\$150.00
TEM gravimetric reduction 3-5 day turnaround	\$100.00
TEM gravimetric reduction RUSH turnaround	\$150.00
TEM Dust wipes 5-10 day turnaround	\$350.00
TEM Dust wipes RUSH turnaround	\$525.00

**Lead**

FAA lead wipes, chips, soils and filters (1-3 day turnaround)	\$22.00
FAA lead wipes, chips, soils and filters (6-hour turnaround)	\$33.00

**Mold**

Fungal spore traps 1-2 day turnaround	\$27.50
Fungal spore traps RUSH turnaround	\$41.25
Fungal bulk samples 1-2 day turnaround	\$25.00
Fungal bulk samples RUSH turnaround	\$37.50

**Soot/Carbon Black**

Optical Microscopy 1-2 day turnaround	\$45.00
Optical Microscopy RUSH turnaround	\$67.50
TEM 3-5 day turnaround	\$200.00
TEM RUSH turnaround	\$300.00

\*Fiberquant does not charge for point counting friable materials found to be ≤1% asbestos.

Sincerely,

Michael Breu  
Technical Manager  
Fiberquant Analytical Services

# **CMG DRAINAGE ENGINEERING**

## **PROPOSAL**



3555 N. MOUNTAIN AVE. • TUCSON, AZ 85719 • PHONE: (520) 882-4244

January 13, 2026

Rick Solis, P.E.  
Solis Engineering Co.  
239 N Church Ave  
Tucson, Arizona 85701

**RE: Scope of Services: Design Engineering Services for Drexel to Valencia East Bank Restoration (24076PFC) - Revision 1**

Dear Rick:

CMG Drainage Engineering (CMG) appreciates the opportunity to submit this design engineering support proposal. This proposal covers the required hydrologic and hydraulic support services for bank protection and overbank design purposes and to provide supporting recommendations for the construction documents. Our proposed scope of work and fee estimate are included below.

**PROJECT OVERVIEW**

The intent of this project is to conduct a feasibility study and prepare design documents for a proposed Soil Cement Bank Protection and River Park along the east bank of the Santa Cruz River, between Drexel Road and Valencia Road. CMG's role is to assist with a Hydrologic and Hydraulic Report which includes river hydraulics, river mechanics, and overbank drainage conditions all while complying with Pima County and FEMA regulations.

**GENERAL ASSUMPTIONS:**

- The level of effort for each work task is limited to the amount of labor and expenses identified in a Project Budget spreadsheet. Costs are itemized to aid in project tracking purposes only. The budget may be transferred between tasks, provided the total contracted amount is not exceeded. Additional services beyond these limits will be considered Extra Work.
- Unless specified within individual tasks, all deliverables will be in electronic format. At the completion of the project, appropriate CAD, GIS, and modeling files shall be provided to the District.
- Hours estimate assumes a 18-month project schedule
- All survey needs will be acquired by Solis or other arrangement.

## **SCOPE TASKS**

### **Task 1.0 PROJECT COORDINATION**

This task includes coordination with Solis and project team, agencies and attendance of meetings.

#### **TASK 1.1 MEETINGS, COMMUNICATION AND COORDINATION**

CMG will coordinate with the team and attend the following meetings with 2 staff members at virtual meetings and one staff at in-person meetings:

##### **CMG PROJECT MEETINGS**

Type of Meeting	Total Number of Meetings
Final Design Kick-off Meeting*	1
Field Meeting**	2
Stakeholder /Progress Meeting*	18
Public Meeting**	2
Consultant Team Meeting*	9
Drexel Bridge Coordination Meeting*	2

(\*) Virtual Meeting / (\*\*) In-Person Meeting

#### **TASK 1.5 MISCELLANEOUS PROJECT GRAPHICS**

CMG is prepared to support the project team by preparing graphics and animations for stakeholders and the public.

#### **TASK 1.6 DREXEL ROAD BRIDGE COORDINATION**

CMG will coordinate with the Drexel Road Bridge Team when the requested coordination has been made by Solis Engineering and has not been addressed as part of the ongoing and prior work CMG has performed on the Drexel Road Bridge Project.

### **Task 3.0 HYDROLOGY AND HYDRAULICS**

#### **Assumptions:**

No new hydrology on the Santa Cruz River will be performed. Discharges from the Flood Insurance Study will be used. Hydrographs from the 1983 flood will be used for the unsteady HEC-RAS 2D. Decision on west bank inclusion will be made prior to proposed hydraulic modeling. No sediment transport modeling is necessary; scour and long-term bed changes can be evaluated empirically and by historical observation.

#### **TASK 3.1 INITIAL HYDROLOGIC AND HYDRAULIC (H&H) REPORT**

CMG will analyze offsite hydrology on both east and west banks outside of limits studied on Drexel Rd Bridge project. Watersheds will be delineated using 2021 USGS open source LiDAR. Drainage patterns will be confirmed in the field. Peak discharges will be calculated using PC-Hydro web app.

CMG will take existing conditions HEC-RAS 1D model from Drexel Rd Bridge project and extend it to the south (upstream) approximately 1000 feet to just upstream of Valencia Road. This will become new baseline model for hydraulics and will serve as corrected effective

model.

CMG will prepare preliminary river hydraulic modeling of the selected alternative from the feasibility task by modifying the existing conditions model and importing new grading surfaces. Preliminary calculations will also be performed for overbank features like storage basins, channels, ditches and spillways. Preliminary scour calculations will be performed for bank protection. Scour calculations will be performed using City of Tucson Standards Manual for Drainage Design scour methodology and the software PC-Scour.

Analysis and results will be documented in a report with exhibits to be submitted at 30% stage.

### **TASK 3.2 FINAL H&H REPORT**

CMG will refine and finalize HEC-RAS 1D to incorporate all design features at 50% stage. In addition, CMG will prepare a HEC-RAS 2D model in unsteady state to appropriately analyze the variability of depth, velocity and discharge. Upon completing the HEC-RAS 2D model, an animation video will be made available for educating the stakeholders and public.

CMG will compare the proposed condition HEC-RAS 1D to the corrected effective model from Task 3.1 and evaluate whether improvements have not exceeded encroachment standards and have not triggered the need to file a CLOMR.

CMG will refine and finalize scour calculations (considering 2D model results), finalize drainage structure hydraulic calculations for inflow structures and overbank structures, including pathway drainage.

CMG will prepare a final report and document final conclusions and findings from the proposed conditions to be submitted at the 50% stage.

### **TASK 3.3 H&H REPORT ADDENDUM**

This task is for the purpose of addressing impacts from changes that occur post Final Report and during the 100% submittal. Those changes that necessitate confirmation of impacts or hydraulic sizing of structures will be performed and documented in an addendum. This task is not intended to cover significant changes to the overall concept and selected alternative that was documented in Task 3.2; changes and alterations that arise due to the advancement of plans to final stages are covered by this task.

#### Task 3.0 DELIVERABLES

- Initial H&H Report
- Final H&H Report
- H&H Report Addendum

#### Task 4.0 FEMA COMPLIANCE/COORDINATION

### **TASK 4.1 CONDITIONAL LETTER OF MAP REVISION (CLOMR) (AS NEEDED)**

Not scoped at this time. Pending design chosen and outcome from Task 4.1. To be scoped at future date.

**TASK 4.2 LETTER OF MAP REVISION (LOMR) (AS NEEDED)**

Not scoped at this time. To be scoped at future date.

**TASK 4.4 FEMA SCOPING LETTER**

Consultant shall prepare a letter that evaluates the project compliance with FEMA and National Flood Insurance Program (NFIP) regulations and necessary steps, if any, to bring the project into compliance.

Task 4.0 DELIVERABLES

- FEMA Scoping Letter

**TASK 11.0 FEASIBILITY REPORT**

As part of the feasibility study, the consultant shall evaluate the appropriate alignment and limits of the soil cement bank protection, Loop path alignment and determine whether the project will require a Conditional Letter of Map Revision (CLOMR).

The consultant shall also prepare necessary hydrology and hydraulics to support the Team in presenting one alternative solution for bank protection and high level concepts for the drainage of the overbank.

It is assumed that both east and west banks will be bank protected for feasibility.

Task 11.0 DELIVERABLES

- Tech Memo

**TASK 13.0 QUALITY CONTROL**

CMG senior staff unassociated with the project shall conduct quality assurance on drainage document deliverables.

**TASK 14.0 PROJECT MANAGEMENT**

CMG will perform invoicing, budget review, schedule review and manage staffing resources .

Drexel to Valencia East Bank Restoration – Scope of Services (Rev 1)

January 13, 2026

Page 5 of 5

Thank you for the opportunity to submit this proposal. Please contact me if you have questions or need additional information.

Sincerely,  
CMG Drainage Engineering, Inc.



Scott J Altherr, PE, CFM  
Principal

Attachments: Cost Plus Fixed Fee Estimate Table – Breakdown by Task

**FEE SCHEDULE**  
**24076PFC - DREXEL TO VALENCIA EAST BANK RESTORATION**  
**Design Engineering Services**  
**CMG Drainage Engineering, Inc.**  
**January 22, 2026**

**Direct Labor:**

<u>Classification</u>	<u>Estimated Hours</u>	<u>Direct+OH Labor Rate</u>	<u>Direct Labor Rate</u>	<u>Loaded Labor Costs</u>
Principal	10	\$170.07	\$72.68	\$1,700.70
Project Manager	280	\$157.06	\$67.12	\$43,976.80
Sr Project Engineer/ Hydrologist	136	\$139.04	\$59.42	\$18,909.44
Project Engineer/ Hydrologist	458	\$121.05	\$51.73	\$55,440.90
Designer	162	\$106.03	\$45.31	\$17,176.86
CADD Tech	148	\$91.03	\$38.90	\$13,472.44
Clerical / Admin	27	\$66.03	\$28.22	\$1,782.81
				\$0.00
				\$0.00
				\$0.00

**Direct Labor (DL)** **1221** **\$152,459.95**

**Estimated Direct Expenses**

<u>Type</u>	<u>Amount</u>	<u>Unit Costs</u>	<u>Cost</u>
Exp	1	\$0.00	\$0.00

**Total of Direct Expenses** **\$0.00**

**Estimated Outside Expenses**

<u>Firm</u>	<u>Service</u>	<u>Cost</u>

**Total of Outside Expenses** **\$0.00**

**Fixed Fee (8% of Labor Cost)**

**\$12,196.80**

**Total Estimated Costs**

**\$164,656.75**

## CMG Drainage Engineering, Inc.

## HOURS DERIVATION

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 170.07	Project Manager	\$ 157.06	Sr Project Engineer/ Hydrologist	\$ 139.04	Project Engineer/ Hydrologist	\$ 121.05	Designer	\$ 106.03	CADD Tech	\$ 91.03	Clerical / Admin	\$ 66.03	January 0, 1900	\$ -	January 0, 1900	\$ -	January 0, 1900	\$ -	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task
				Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount				
<b>1.0</b>	<b>PROJECT COORDINATION</b>		<b>147</b>	<b>2</b>	<b>\$ 340.14</b>	<b>104</b>	<b>\$ 16,334.24</b>	<b>0</b>	<b>\$ -</b>	<b>25</b>	<b>\$ 3,026.25</b>	<b>8</b>	<b>\$ 848.24</b>	<b>0</b>	<b>\$ -</b>	<b>8</b>	<b>\$ 528.24</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 21,077.11</b>	<b>\$ 1,686.17</b>	<b>\$ -</b>	<b>\$ 22,763.28</b>
1.1.1	Project Coordination (General)		73	2	\$ 340.14	65	\$ 10,208.90	0	\$ -	0	\$ -	0	\$ -	0	\$ -	6	\$ 396.18	0	\$ -	0	\$ -	0	\$ -	\$ 10,945.22	\$ 875.62		
1.1.2	Final Design Kick-off Meeting		2	0	\$ -	1	\$ 157.06	0	\$ -	1	\$ 121.05	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 278.11	\$ 22.25		
1.1.3	Field Meeting		2	0	\$ -	2	\$ 314.12	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 314.12	\$ 25.13		
1.1.4	Stakeholder /Progress Meeting		24	0	\$ -	12	\$ 1,884.72	0	\$ -	12	\$ 1,452.60	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 3,337.32	\$ 266.99		
1.1.5	Public Meeting		4	0	\$ -	4	\$ 628.24	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 628.24	\$ 50.26		
1.1.6	Consultant Team Meeting		12	0	\$ -	6	\$ 942.36	0	\$ -	6	\$ 726.30	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,668.66	\$ 133.49		
1.1.7	Utility Coordination Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.8	Drexel Bridge Coordination Meeting		4	0	\$ -	2	\$ 314.12	0	\$ -	2	\$ 242.10	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 556.22	\$ 44.50		
1.2	Project Schedule		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.3	Public Participation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.5	Miscellaneous Project Graphics		14	0	\$ -	4	\$ 628.24	0	\$ -	0	\$ -	8	\$ 848.24	0	\$ -	2	\$ 132.06	0	\$ -	0	\$ -	0	\$ -	\$ 1,608.54	\$ 128.68		
1.6	Drexel Road Bridge Coordination		12	0	\$ -	8	\$ 1,256.48	0	\$ -	4	\$ 484.20	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,740.68	\$ 139.25		
<b>2.0</b>	<b>SURVEY, MAPPING AND RIGHT-OF-WAY</b>		<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	
2.1	Field Survey (Boundary, right-of-way, and topography survey)		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.2	Conditions of Title		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.3	Plot Identified Easements (Alta Survey)		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.4	Miscellaneous Spot Survey		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.5	Invasive Species Mapping		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.6	Native Plant Mapping		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>3.0</b>	<b>HYDROLOGY AND HYDRAULICS</b>		<b>894</b>	<b>7</b>	<b>\$ 1,190.49</b>	<b>96</b>	<b>\$ 15,077.76</b>	<b>106</b>	<b>\$ 14,738.24</b>	<b>374</b>	<b>\$ 45,272.70</b>	<b>146</b>	<b>\$ 15,480.38</b>	<b>148</b>	<b>\$ 13,472.44</b>	<b>17</b>	<b>\$ 1,122.51</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 106,354.52</b>	<b>\$ 8,508.36</b>	<b>\$ -</b>	<b>\$ 114,862.88</b>
3.1	Initial Hydrologic & Hydraulic (H&H) Report		406	2	\$ 340.14	44	\$ 6,910.64	48	\$ 20,094.30	86	\$ 9,118.58	50	\$ 4,551.50	10	\$ 660.30	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 48,349.38	\$ 3,867.95		
3.2	Final H&H Report		423	4	\$ 680.28	36	\$ 5,654.16	52	\$ 7,230.08	168	\$ 20,336.40	60	\$ 6,361.80	98	\$ 8,920.94	5	\$ 330.15	0	\$ -	0	\$ -	0	\$ -	\$ 49,513.81	\$ 3,961.10		
3.3	H&H Report Addendum		65	1	\$ 170.07	16	\$ 2,512.96	6	\$ 834.24	40	\$ 4,842.00	0	\$ -	2	\$ 132.06	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 8,491.33	\$ 679.31		
<b>4.0</b>	<b>FEMA COMPLIANCE / COORDINATION</b>		<b>31</b>	<b>1</b>	<b>\$ 170.07</b>	<b>16</b>	<b>\$ 2,512.96</b>	<b>8</b>	<b>\$ 1,112.32</b>	<b>4</b>	<b>\$ 484.20</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>2</b>	<b>\$ 132.06</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 4,411.61</b>	<b>\$ 352.93</b>	<b>\$ -</b>	<b>\$ 4,764.54</b>
4.1	CLOMR Preparation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
4.2	Post Construction Mapping (LOMR)		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
4.3.1	Biological Evaluation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
4.3.2	Endangered Species Act (ESA) Compliance Letter		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
4.3.3	Incorporate Biological commitments into the special provisions		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
4.4	FEMA Scoping Letter		31	1	\$ 170.07	16	\$ 2,512.96	8	\$ 1,112.32	4	\$ 484.20	0	\$ -	0	\$ -	2	\$ 132.06	0	\$ -	0	\$ -	0	\$ -	\$ 4,411.61	\$ 352.93		
<b>5.0</b>	<b>GEOTECHNICAL</b>		<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b></b>																	

CMG Drainage Engineering, Inc.

## **HOURS DERIVATION**

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 170.07	Project Manager	\$ 157.06	Sr Project Engineer/ Hydrologist	\$ 139.04	Project Engineer/ Hydrologist	\$ 121.05	Designer	\$ 106.03	CADD Tech	\$ 91.03	Clerical / Admin	\$ 66.03	January 0, 1900	\$	- January 0, 1900	\$	- January 0, 1900	\$	-	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task
	(6) Site Water Harvesting Methods-Strategies-Details For East Riverbank to Calle Santa Cruz	6	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(6) Cross Sections at 200-ft intervals	6	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	Plot Approximate Locations of Utilities in Pipe Networks (Civil 3D)	0	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	Opinion of Probable Cost / Bid Tabulation	0	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
10.5	Drainage Technical Memorandum	81	0	0	\$ -	12	\$ 1,884.72	6	\$ 834.24	55	\$ 6,657.75	8	\$ 848.24	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ 10,224.95	\$ 818.00		
	<b>11.0 FINAL PLANS, SPECIAL PROVISIONS, COSTS, &amp; BID TABULATION</b>																											
11.1	<b>30% Design Phase Plans</b>	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
	<b>GENERAL PLANS</b>																											
	(1) Cover sheet, Survey Control, Index Sheet	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(2) General Notes, Earthwork Quantities, & Legend Sheet	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(3) Typical Sections Sheets	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(3) Santa Cruz Riverbank Survey Control Sheets	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Summary Sheet - Pipe Culvert	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Summary Sheet - RCBC	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	<b>EAST BANK AND SITE PLANS (AND WEST BANK AT DEXEL BRIDGE APPROACH)</b>																											
	(3) Demolition Sheets (100 Scale)	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(3) Construction Access / Staging Yard / Maintenance of Traffic Plans	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(12) Plan & Profile - East Bank Soil Cement Protection	12	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(3) Plan & Profile - East Bank Soil Cement Plating	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Plan & Profile - West Bank Soil Cement Protection	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Site Construction Plan - West Pathway (at Drexel / Mahan Drive)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Site Construction Plan - East Pathway (at Drexel / Calle Santa Cruz)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(5) Site Construction Plans - East Riverbank to Calle Santa Cruz	5	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(18) Site Staking Plan Sheets - East Riverbank to Calle Santa Cruz	18	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(2) Site Staking Plan Sheets - West Bank (Drexel Bridge Approach)	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(7) Staking Point Table Sheets	7	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	<b>EAST RIVERBANK CROSS DRAINAGE (AND DRAINAGE AT DEXEL BRIDGE APPROACH)</b>																											
	(1) Plan & Profile - West Concrete Channel with Staking Points	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Plan & Profile - West 48-inch CMP Extension into Channel	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Plan & Profile - East 48-inch RCPs (Soil Cement to Junction Headwall)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Outfall Channel From Northern Curb Depression On Calle Santa Cruz	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Channel From Exist (2) 24" CMP On Calle Santa Cruz	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Valencia Wash Soil Cement Protection	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	<b>PAVED PATHWAY PLANS</b>																											
	(1) Summary Sheet - Signing	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) General Notes - Signing & Pavement Markings	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(10) Plan & Profile - Multitude Pathway (Including Bridge Profile) (Including Signing & Striping)	10	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	<b>DETAIL SHEETS</b>																											
	(1) Detail Sheet - Slope Paving Bridge Approaches	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Bridge Approach Handrail (H=52-inch)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Stabilized Berm	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Concrete Grade Control	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Fencing Under Bridge Abutments	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Exst Soil Cement (2 locations)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Exst Gabions	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Lower Flow Bank Protection and Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Upper Plating (At Valencia Wash)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Concrete Spillways	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -																	

# CMG Drainage Engineering, Inc.

## HOURS DERIVATION

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 170.07	Project Manager	\$ 157.06	Sr Project Engineer/ Hydrologist	\$ 139.04	Project Engineer/ Hydrologist	\$ 121.05	Designer	\$ 106.03	CADD Tech	\$ 91.03	Clerical / Admin	\$ 66.03	January 0, 1900	\$ -	January 0, 1900	\$ -	January 0, 1900	\$ -	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task
	(3) Construction Access / Staging Yard / Maintenance of Traffic Plans	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(12) Plan & Profile - East Bank Soil Cement Protection	12	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(3) Plan & Profile - East Bank Soil Cement Plating	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Plan & Profile - West Bank Soil Cement Protection	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Site Construction Plan - West Pathway (at Drexel / Mahan Drive)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Site Construction Plan - East Pathway (at Drexel / Calle Santa Cruz)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(5) Site Construction Plans - East Riverbank to Calle Santa Cruz	5	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(18) Site Staking Plan Sheets - East Riverbank to Calle Santa Cruz	18	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(2) Site Staking Plan Sheets - West Bank (Drexel Bridge Approach)	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(7) Staking Point Table Sheets	7	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>EAST RIVERBANK CROSS DRAINAGE (AND DRAINAGE AT DREXEL BRIDGE APPROACH)</b>																										
	(1) Plan & Profile - West Concrete Channel with Staking Points	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Plan & Profile - West 48-inch CMP Extension into Channel	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Plan & Profile - East 48-inch RCPs (Soil Cement to Junction Headwall)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Outfall Channel From Northern Curb Depression On Calle Santa Cruz	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Valencia Wash Soil Cement Protection	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>PAVED PATHWAY PLANS</b>																										
	(1) Summary Sheet - Signing	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) General Notes - Signing & Pavement Markings	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(10) Plan & Profile - Multilane Pathway (Including Bridge Profile) (Including Signing & Striping)	10	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>DETAIL SHEETS</b>																										
	(1) Detail Sheet - Slope Paving Bridge Approaches	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Bridge Approach Handrail (H=52-inch)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Stabilized Berm	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Concrete Grade Control	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Fencing Under Bridge Abutments	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Existing Soil Cement (2 locations)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Existing Gabions	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Lower Flow Bank Protection and Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Upper Plating (At Valencia Wash)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Concrete Spillways	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Interpretive Sign	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>CROSS SECTIONS</b>																										
	(12) Cross Sections at 100-ft intervals (5 per sheet)	12	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>COST ESTIMATE &amp; SPECIAL PROVISIONS</b>																										
	Opinion of Probable Cost / Bid Tabulation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	Special Provisions		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>11.3 100% Design Phase Plans</b>		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	<b>GENERAL PLANS</b>																										
	(1) Cover sheet, Survey Control, Index Sheet	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(2) General Notes, Earthwork Quantities, & Legend Sheet	2	0	0																							

CMG Drainage Engineering, Inc.

## **HOURS DERIVATION**

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 170.07	Project Manager	\$ 157.06	Sr Project Engineer/ Hydrologist	\$ 139.04	Project Engineer/ Hydrologist	\$ 121.05	Designer	\$ 106.03	CADD Tech	\$ 91.03	Clerical / Admin	\$ 66.03	January 0, 1900	\$ -	January 0, 1900	\$ -	January 0, 1900	\$ -	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task	
	(2) Plan & Profile - Valencia Wash Soil Cement Protection	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	<b>PAVED PATHWAY PLANS</b>																											
	(1) Summary Sheet - Signing	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) General Notes - Signing & Pavement Markings	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(10) Plan & Profile - Multiuse Pathway (Including Bridge Profile) (Including Signing & Striping)	10	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	<b>DETAIL SHEETS</b>																											
	(1) Detail Sheet - Slope Paving Bridge Approaches	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Bridge Approach Handrail (H=52-inch)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Stabilized Berm	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Concrete Grade Control	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Fencing Under Bridge Abutments	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Exst Soil Cement (2 locations)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Exst Gabions	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Lower Flow Bank Protection and Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Upper Plating (At Valencia Wash)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Concrete Spillways	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Interpretive Sign	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	<b>CROSS SECTIONS</b>																											
	(12) Cross Sections at 100-ft intervals (5 per sheet)	12	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -		
	<b>COST ESTIMATE &amp; SPECIAL PROVISIONS</b>																											
	Opinion of Probable Cost / Bid Tabulation	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	Special Provisions	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	<b>11.5 Unforeseen Work</b>	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	<b>12.0 QUALITY CONTROL REVIEW</b>	16	0	\$ -	0	\$ -	0	\$ -	16	\$ 2,224.64	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	2,224.64	\$ 177.97	\$ -	2,402.61
12.1	Initial Hydrologic & Hydraulic (H&H) Report	8	0	\$ -	0	\$ -	0	\$ -	8	\$ 1,112.32	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,112.32	\$ 88.99	\$ -	
12.2	Final Hydrologic & Hydraulic (H&H) Report	8	0	\$ -	0	\$ -	0	\$ -	8	\$ 1,112.32	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,112.32	\$ 88.99	\$ -	
12.3	H&H Report Addendum	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.4	Biological Evaluation	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.5	Endangered Species Act (ESA) Compliance Letter	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.6	Geotechnical Investigation (Including Soil Cement Stability Analysis)	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.7	Assist in obtaining the Section 404 permit for the project	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.8	Provide Preliminary Initial Site Assessment	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.9	Provide Lead-based paint and asbestos testing report	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.10	Initial Feasibility Report	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.11	Final Feasibility Report	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.12	30% Design Phase Plans	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.13	60% Design Phase Plans	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
12.15	100% - Final PS&E Plans	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
	<b>13.0 PROJECT MANAGEMENT</b>	52	0	\$ -	52	\$ 8,167.12	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 8,167.12	\$ 653.37	\$ -	\$ 8,820.45
13.1	Perform invoicing, budget review, and subconsultant invoice review	52	0	\$ -	52	\$ 8,167.12	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 8,167.12	\$ 653.37	\$ -	
13.2	Change Control Log	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
	<b>Totals</b>	1221	10	\$ 1,700.70	280	\$ 43,976.80	136	\$ 18,909.44	458	\$ 55,440.90	162	\$ 17,176.86	148	\$ 13,472.44	27	\$ 1,782.81	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 152,459.95	\$ 12,196.80	\$ -	\$ 164,656.75

**ALTA SURVEY, LLC**

**PROPOSAL**

## PROPOSAL for PROFESSIONAL SURVEYING SERVICES

Proposal No.: 254335

Date: December 18, 2025

Client: Solis Engineering Co.  
239 N. Church Ave.  
Tucson, AZ 85701

Project: **Drexel to Valencia East Bank Restoration  
Project #24076PFC**

Attention: Rick Solis

Alta Survey, LLC dba Alta Arizona (hereinafter referred to as "Alta"), appreciates the opportunity to provide you with this proposal to perform surveying services for Solis Engineering Co. The following survey services will be provided by Alta:



### DESCRIPTION OF SERVICES:

Phoenix

Tucson

Florence

Sierra Vista

Alta understands that the above referenced project consists of providing boundary, right-of-way, and topographic survey for the following parcels: 138-01-004D, 137-09-0100, 137-11-8220, 137-11-431J, 137-33-5710 and 137-09-002C.

### SCOPE OF SERVICES:

- Provide boundary, right-of-way, and topographic survey for the subject parcels.
- Establish site survey control, with basis of coordinates and elevations located in close proximity to project site.
- Locate existing survey monuments, property pins and right-of-way monuments.
- Set ten (10) aerial targets.
- Aerial Mapping will be provided including ortho-photos.
- Field Survey to supplement aerial mapping.
- Allowance for up to six (6) Conditions of Title.
- Review Conditions of Title and plot easements.
- Analyze located existing survey monuments and determine boundaries for subject parcels and right-of-way adjacent to subject parcels.
- Collect invasive species between the Eastbank of the river and Calle Santa Cruz, between Valencia to just past Drexel Road, to the project tie-in.
- Collect existing large trees and shrubs between the Eastbank of the river and Calle Santa Cruz, between Valencia to just past Drexel Road, to the project tie-in.
- Prepare ALTA/NSPS Land Title Survey for subject parcels.
- Miscellaneous spot surveys: provide up to two additional site visits to capture additional survey as needed.

7400 W Detroit St  
Suite 190  
Chandler, AZ 85226

2025 W Ruthrauff Rd  
Suite 125  
Tucson, AZ 85710

480.656.1517  
520.398.6651

altaarizona.com

### **Deliverables:**

- Conditions of Title
- ALTA/NSPS Land Title Survey – Plotting of Easements
- Design Survey
- Invasive Species Mapping
- Mapping of Existing Trees and Large Shrubs
- Aerial Mapping, orthophotos, CADD format drawing and points in .txt file with point descriptions.

**FEE FOR SERVICES:**

In accordance with the scope of services, specifications, and plans, the following is our proposed fee for this project:

<b>ALTA Estimated Survey &amp; Mapping Fee:</b>	<b>\$54,176.44</b>
<b>Aerial Mapping (AeroTech Mapping):</b>	<b>\$12,448.08</b>
<b>Allowance for up to six (6) Conditions of Title:</b>	<b>\$2,766.00</b>

Completed work will be invoiced at the end of each month. I hope that this proposal is responsive to your request in terms of services, fee and schedule. If you have any questions or concerns, please contact me personally. I will be very happy to discuss and resolve them with you. I can be reached at 520.398.6651 or at [patricia.gajda@altarizona.com](mailto:patricia.gajda@altarizona.com).

Best regards,  
Alta Arizona



Patricia Gajda, RLS  
Survey Manager

**FEE SCHEDULE**  
**24076PFC - DREXEL TO VALENCIA EAST BANK RESTORATION**  
**Design Engineering Services**  
**Alta Arizona**  
**January 22, 2026**

**Direct Labor:**

<u>Classification</u>	<u>Estimated Hours</u>	<u>Direct+OH Labor Rate</u>	<u>Direct Labor Rate</u>	<u>Loaded Labor Costs</u>
Senior Professional (RLS)	51	\$165.99	\$62.00	\$8,465.49
Survey Crew - 2 Man	176	\$167.06	\$62.40	\$29,402.56
Survey Technician	108	\$104.41	\$39.00	\$11,276.28
Clerical / Admin	12	\$84.92	\$31.72	\$1,019.04

**Direct Labor (DL)** **347** **\$50,163.37**

**Estimated Direct Expenses**

<u>Type</u>	<u>Amount</u>	<u>Unit Costs</u>	<u>Cost</u>

**Total of Direct Expenses** **\$0.00**

**Estimated Outside Expenses**

<u>Firm</u>	<u>Service</u>	<u>Cost</u>
AeroTech Mapping	Aerial Mapping	\$12,448.08
Fidelity National Title/Lawyers Titel	Condition of Title	\$2,766.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00

**Total of Outside Expenses** **\$15,214.08**

**Fixed Fee (8% of Labor Cost)** **\$4,013.07**

**Total Estimated Costs** **\$69,390.52**

## HOURS DERIVATION

Task No.	Description	No. of Sheets	Total Hours	Senior Professional (RLS)	\$ 165.99	Survey Crew - 2 Man	\$ 167.06	Survey Technician	\$ 104.41	Clerical / Admin	\$ 84.92	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task
				Hours	Per / Hour	Hours	Per / Hour	Hours	Per / Hour	Hours	Per / Hour				
				Amount		Amount		Amount		Amount					
<b>2.0</b>	<b>PROJECT COORDINATION</b>		<b>7</b>	<b>7</b>	<b>\$ 1,161.93</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 1,161.93</b>	<b>\$ 92.95</b>	<b>\$ -</b>	<b>\$ 1,254.88</b>
1.1.1	Project Coordination (General)		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	
1.1.2	Final Design Kick-off Meeting		1	1	\$ 165.99	0	\$ -	0	\$ -	0	\$ -	\$ 165.99	\$ 13.28		
1.1.3	Field Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.4	Stakeholder /Progress Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.5	Public Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.6	Consultant Team Meeting		6	6	\$ 995.94	0	\$ -	0	\$ -	0	\$ -	\$ 995.94	\$ 79.68		
1.1.7	Utility Coordination Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.8	Drexel Bridge Coordination Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.2	Project Schedule		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.3	Public Participation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.5	Miscellaneous Project Graphics		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.6	Drexel Road Bridge Coordination		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>2.0</b>	<b>SURVEY, MAPPING AND RIGHT-OF-WAY</b>		<b>340</b>	<b>44</b>	<b>\$ 7,303.56</b>	<b>176</b>	<b>\$ 29,402.56</b>	<b>108</b>	<b>\$ 11,276.28</b>	<b>12</b>	<b>\$ 1,019.04</b>	<b>\$ 49,001.44</b>	<b>\$ 3,920.12</b>	<b>\$ 15,214.08</b>	<b>\$ 68,135.64</b>
2.1	Field Survey (Boundary, right-of-way, and topography survey)		122	16	\$ 2,655.84	80	\$ 13,364.80	24	\$ 2,505.84	2	\$ 169.84	\$ 18,696.32	\$ 1,495.71	\$ 12,448.08	
2.2	Conditions of Title		2	0	\$ -	0	\$ -	0	\$ -	2	\$ 169.84	\$ 169.84	\$ 13.59	\$ 2,766.00	
2.3	Plot Identified Easements (Alta Survey)		82	16	\$ 2,655.84	8	\$ 1,336.48	56	\$ 5,846.96	2	\$ 169.84	\$ 10,009.12	\$ 800.73		
2.4	Miscellaneous Spot Survey		22	4	\$ 663.96	16	\$ 2,672.96	0	\$ -	2	\$ 169.84	\$ 3,506.76	\$ 280.54		
2.5	Invasive Species Mapping		42	4	\$ 663.96	24	\$ 4,009.44	12	\$ 1,252.92	2	\$ 169.84	\$ 6,096.16	\$ 487.69		
2.6	Native Plant Mapping		70	4	\$ 663.96	48	\$ 8,018.88	16	\$ 1,670.56	2	\$ 169.84	\$ 10,523.24	\$ 841.66		
<b>Totals</b>			<b>347</b>	<b>51</b>	<b>\$ 8,465.49</b>	<b>176</b>	<b>\$ 29,402.56</b>	<b>108</b>	<b>\$ 11,276.28</b>	<b>12</b>	<b>\$ 1,019.04</b>	<b>\$ 50,163.37</b>	<b>\$ 4,013.07</b>	<b>\$ 15,214.08</b>	<b>\$ 69,390.52</b>

Jan Gutbub

---

**From:** Cowgill, Dan <Dan.Cowgill@fnf.com>  
**Sent:** Wednesday, December 17, 2025 8:12 AM  
**To:** Jan Gutbub  
**Cc:** PimaRecordings  
**Subject:** RE: Drexel to Valencia

\$461.00 each.  
\$2766.00 total

If you want to proceed, reply all to this email including [PimaRecordings@fnf.com](mailto:PimaRecordings@fnf.com) and Melissa will get these opened up for you.

Dan Cowgill  
Vice President/Southern Arizona Chief Title Officer  
Fidelity National Title/Lawyers Title  
800 E. Wetmore Rd., Suite 110  
Tucson, AZ 85719  
[dan.cowgill@fnf.com](mailto:dan.cowgill@fnf.com)  
520-751-2911-Direct line  
520-240-5174-Iphone



---

**From:** Jan Gutbub <Jan.Gutbub@ALTAEI.com>  
**Sent:** Wednesday, December 17, 2025 8:07 AM  
**To:** Cowgill, Dan <Dan.Cowgill@fnf.com>  
**Subject:** FW: Drexel to Valencia

Dan

Can I get a cost for condition of title reports for the parcels listed below.

- 13801004D – Pima County
- 137090100 – Pima County
- 137118220 – Pima County
- 13711431J – Pima County
- 137335710 – Pima County
- 13709002C – Pima County

**Jan Gutbub**

Survey Estimator

**Partnering to build and protect what matters most**

**E:**[jan@altaei.com](mailto:jan@altaei.com)

**O:** 520-398-6651 | **M:** 520-490-6845

We have recently changed our name from Alta Arizona/Southwest to Alta Environmental and Infrastructure. While our name has changed, our commitment to providing exceptional service remains the same.

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**NOTICE:** The information contained in this message is proprietary and/or confidential and may be privileged. If you are not the intended recipient of this communication, you are hereby notified to: (i) delete the message and all copies; (ii) do not disclose, distribute or use the message in any manner; and (iii) notify the sender immediately.

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Patricia Gajda, RLS

December 17, 2025

**Alta Arizona**

 2025 West Ruthrauff Road Suite 125  
 Tucson, AZ 85705

**Proposal: Drexel Wash - Option (1) ~343 Acres, (2) ~136 Acres; See Exhibit A**

AeroTech Mapping (ATM) is pleased to present the following Geospatial cost proposal for aerial photography and digital imagery for the project cited above. See Exhibit A. pdf layout. See Exhibit B. KMZ layout.

**Mapping Scope of Work**

ATM's Design Scale Mapping acquisition and map production specifications for photography (Illustrated in Exhibit A.) will be produced from:

- ✓ Area of interest, 343 Acres, located in Tucson, AZ
- ✓ Photography utilizing ATM's Vexcel Falcon Prime Digital Camera for 1 flight line and 16 exposures
- ✓ LiDAR collected for Internal Use Only - 2 flight lines
- ✓ Full planimetric detail will be provided suitable for 1" = 40'
- ✓ Orthophotography at 0.25' GSD

Mapping Scale	Contour Intervals	Digital Camera Flight Resolution	Relative Vertical Accuracy	Relative Horizontal Accuracy
1" = 40'	1' with 5' Index	5cm suitable for 1" = 40'	± 0.16	± 0.33

**Aerial Ground Control**

Alta Arizona will be responsible for establishing ground control for the geospatial mapping. The final survey scope will be negotiated at Notice to Proceed.

Aerial Targets	Size of Targets	Control Delivery
10 targets	6" wide material or paint and 6' total length	Electronic Text (TXT) File suggested format: ID, N, E, Z, DESC
<b>Notes</b>		
Submit control and survey data (if providing) in an Electronic Text (TXT) file. Preferred deliver: ID, N, E, Z, DESC. Only provide ground elevation data.		
If using client layers, please provide.		
For LiDAR deliverable projects, please provide Horizontal & Vertical Datum, Geoid, Units, and Scale Factor.		

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[Nevada](#)
[New Mexico](#)
[Texas](#)
[Utah](#)
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## Deliverables

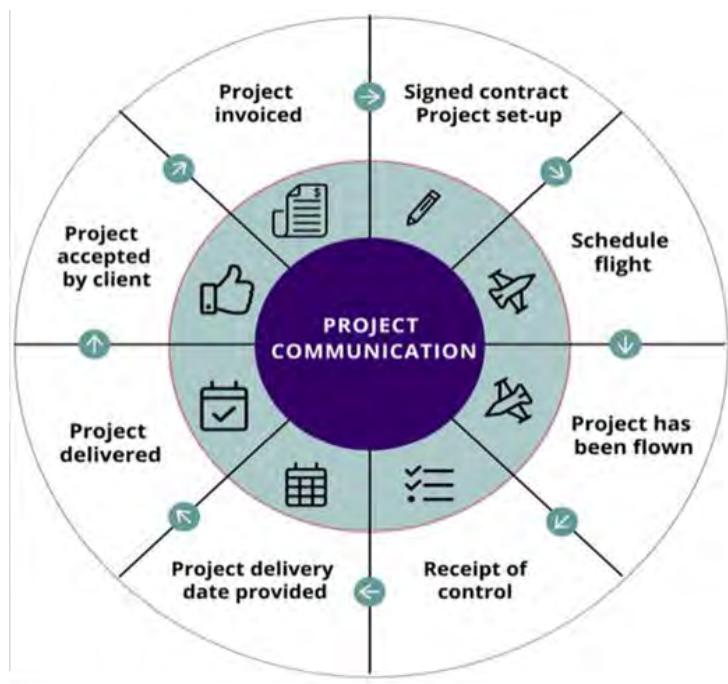
- ✓ Format: AutoCAD C3D with ATM CAD standards
- ✓ CAD Files: 1) Topo & Planimetrics, 2) Surface DTM
- ✓ PDF Topo Print
- ✓ Orthophoto Imagery: TIFF
- ✓ Reports PDF: Aerotriangulation

## Estimated Project Schedule

The Project Management Professional (PMP)® structured framework is applied to manage all projects. From initiating, planning, executing, monitoring & controlling to closing, we quality assure at every stage to ensure delivery of accurate mapping products and mitigate unforeseen schedule and cost overrun delays.

ATM anticipates completing this project 15-18 consecutive working days after both imagery is completed and the receipt of control is acquired. Please note that unavoidable or unforeseen delays, i.e., weather, flight restrictions, and aircraft maintenance, may exist beyond our control.

Sonia Hernandez ([SoniaHernandez@atmlv.com](mailto:SoniaHernandez@atmlv.com)) will be your Project Coordinator. She works closely with the business development and production team, and will communicate the milestones of your project.



**GEOSPATIAL TECHNOLOGY**  
AeroTech Mapping Equipped With Cutting Edge Tools

**2 - Cessna 206**  
Turbo Charged



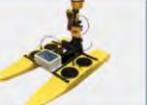
**Vexcel Ultracam**  
Falcon Mark II  
Digital Camera



**Lidar Sensor**  
Teledyne Optec CM2000



**Seafloor Hydrone**  
Bathymetric Boat



**DJI Matrice 300 RTK**  
LiDAR Sensor  
Thermal Sensor



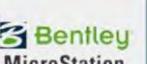
**Mobile LiDAR Scanner**  
ROCK R360



**AutoDeskre Software**  
Autocad Civil 3D 2022



**Microstation Software**  
Modeling, Documentation, Visualization Software



**Trimble Inpho Software**  
Datum Stereoplotter



Arizona

California

Nevada

New Mexico

Texas

Utah

[www.atmlv.com](http://www.atmlv.com)

Summary of Geospatial Services		
Services	Description	Proposed Schedule
Aerial Photography Acquisition	5cm GSD	
Digital Imagery	1 Flight Line & 16 Exposures	<b>15-18 Working Days</b>
LiDAR	Internal Use Only	
Mapping Scale	1" = 40'	After both imagery & receipt of control are acquired
Planimetric Compilation	Full Detail	
Orthophotography	0.25' GSD	
CAD Format	AutoCAD C3D	
Layers	ATM	
Aerial Ground Targets	10	
Delivery Media	ShareFile	

**Budget: Option 1 (South & North) ~343 Acres**
**\$12,448.08**

Initials: \_\_\_\_\_

**Budget: Option 2 (South Only) ~208 Acres**
**\$10,123.30**

Initials: \_\_\_\_\_

\*Additional costs and fees may apply. See attached supplemental cost sheet.

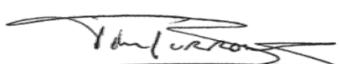
**Payment Terms: Net 30 or subject to terms of existing MSA**

This proposal will remain in effect for 60 days after the date of this letter. If you have questions, please do not hesitate to contact us at any time. ATM appreciates the opportunity to submit this proposal, and we look forward to working with Alta Arizona.

Your signature indicates your acceptance of the scope of work, terms of the proposal, and serves as our Notice to Proceed.

Sincerely,

Accepted By: Alta Arizona



Tim Burrows, Account Manager

**Patricia Gajda, RLS**

Client Project Number

Date

**Arizona**

**California**

**Nevada**

**New Mexico**

**Texas**

**Utah**

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### Supplemental Cost Sheet

ATM offers additional services and options. Review the Options & Additional Costs sheet listed below and select all options and quantities. Some options & additions require pre-approval and/or negotiation. Return the proposal with your requests to your ATM representative for price adjustment.

Options & Additional Costs	Price	QTY	Total Costs
Topo & Image Plot Paper Plus Shipping	\$85.00	0	<b>\$0.00</b>
Integration of Survey Data - Before Map Compilation	\$140.00	0	<b>\$0.00</b>
Integration of Survey Data - After Map Compilation	\$420.00	0	<b>\$0.00</b>
Professional Liability: Non-Standard / Non-Blanket Additional Insured, Waiver, & Subrogation Clauses	\$180.00	0	<b>\$0.00</b>
Aviation COI: Non-Standard / Non-Blanket Additional Insured Waiver, & Subrogation Clauses	\$180.00	0	<b>\$0.00</b>
Aviation Insurance over ATM's Standard of \$25M - Call for a quote	TBD	0	<b>\$0.00</b>
Options & Additional Costs	%	Yes or No	Total Costs
Rush Service Fee (If available, must be negotiated)	10%	No	<b>\$0.00</b>
Credit Card Payment Surcharge	3%	No	<b>\$0.00</b>
Tax (NM Only if NTTC form is not provided)	7.75%	No	<b>\$0.00</b>
<b>Options &amp; Additional Costs</b>			<b>\$0.00</b>

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## DERIVATION OF COST PROPOSAL SUMMARY

**FIRM NAME:** AeroTech Mapping, Inc.  
**CONTRACT DESCRIPTION:** Drexel Wash - Option (1) ~343 Acres  
**CONTRACT NO.:**  
**ADOT PROJECT NO.:**  
**ATM Client** **ALTA Arizona**

### DIRECT LABOR

Classification	Labor Hours	Hourly Billing Rate	Labor Fees
Project Manager (Production Coordinator)	4	\$ 140.49	\$ 561.96
Photogrammetrist (LiDAR Calibration & Classification)	10	\$ 103.79	\$ 1,037.90
Photogrammetrist (Analytical Triangulation)	25	\$ 99.86	\$ 2,496.50
Photogrammetrist (DTM Collection)	25	\$ 89.57	\$ 2,239.25
Photogrammetrist (Digital Ortho Generation)	15	\$ 88.19	\$ 1,322.85
CADD Technician	30	\$ 72.91	\$ 2,187.30
Administrative	4	\$ 85.58	\$ 342.32
<b>113</b>			<b>Subtotal</b> <b>\$ 10,188.08</b>

### DIRECT EXPENSES

Flying and Photography	Units	Unit Cost	Cost
Mobilization - FlightTime	2	\$ 825.00	\$ 1,650.00
Aircraft - Camera	0	\$ 950.00	\$ -
Aircraft - LiDAR	0	\$ 1,450.00	\$ -
Flight Lines	1	\$ 610.00	\$ 610.00
Mileage (per ADOT Travel Policy)	0	\$ 0.655	\$ -
Lodging (per ADOT Travel Policy)	0	\$ 107.00	\$ -
Meals (per ADOT Travel Policy -Full Day)	0	\$ 49.00	\$ -
Meals (per ADOT Travel Policy -Travel Day)	0	\$ 36.75	\$ -
<b>Total Direct Expenses</b>			<b>\$ 2,260.00</b>

### SUBCONSULTANTS

NAME	\$	-
<b>Total Subconsultant Cost</b>	<b>\$</b>	<b>-</b>
<b>Total Lump Sum Cost</b>		
<b>\$ 12,448.08</b>		



Signature

12/17/2025

Date

**STRUCTURAL CONCEPTS, INC. (SBE)**

**PROPOSAL**

18 December 2025

*Revised 13 January 2026*

*Revised 22 January 2026*

Mr. Rick Solis, PE  
Solis Engineering Co.  
239 N. Church Avenue  
Tucson, Arizona 85701

Subject: Fee Proposal – Structural Engineering Services (*Revision 2*)  
Drexel to Valencia East Bank Restoration  
Owner: Pima County Regional Flood Control District (PCRFCD)  
Owner Project No.: 24076PFC  
SCI Proposal No.: P25-082

Dear Mr. Solis,

Structural Concepts Inc. (SCI) is pleased to submit this proposal to provide structural engineering services for the above-mentioned project. It is our understanding that Pima County Regional Flood Control District (PCRFCD) wishes to conduct a feasibility study and have design documents prepared for a Soil Cement Bank Protection and River Park along the east bank of the Santa Cruz River, between Drexel Road and Valencia Road. The project is currently envisioned to consist of the following major elements:

- Soil Cement Bank Protection based on the necessary level of protection on both the east and west banks for future City of Tucson Drexel Road Bridge.
- Chuck Huckleberry Loop pathway and decomposed granite pathway on East Bank.
- Landscaping restoration, Planting, Irrigation, and SWPPP for the entire project.

SCI has been invited to participate as a Structural Engineering Subconsultant. The scope of work for the structural discipline is expected to include a pedestrian bridge and associated foundations; reinforced concrete box culverts with custom headwalls, wingwalls, and aprons; concrete-lined channel; pipe culvert junction structures; and various other structural features for the River Park and bank improvements.

The scope of work described herein is based on the general assumptions and exclusions provided in the master scope prepared by Solis Engineering.

## **TASK 1.0 PROJECT COORDINATION**

### **TASK 1.1 MEETINGS, COMMUNICATION AND COORDINATION**

An assumption of the type and number of project meetings the Structural Subconsultant will attend is provided in Table 1 below and is based on a project design duration of 18 months. Prior to commencing design, the Consultant and project team shall prepare for and attend a field meeting to walk the entire project area and discuss site specifics with County staff.

**TABLE 1**  
**SUMMARY OF PROJECT MEETINGS**

Type of Meeting	Total Number of Meetings
Final Design Kick-off Meeting*	1
Field Meeting**	1
Stakeholder /Progress Meeting*	0 (of 12)
Public Meeting**	0
Consultant Team Meeting*	6
Utility Coordination Meeting*	0 (of 2)
Drexel Bridge Coordination Meeting*	0 (of 4)

(\*) Virtual Meeting / (\*\*) In-Person Meeting

### **TASK 1.3 PUBLIC PARTICIPATION**

The Structural Subconsultant will assist with structural tasks associated with the following Consultant subtasks:

- Provide structural discipline materials.
- Assist in preparing structural discipline questionnaire content for the public meeting.
- Assist with structural discipline responses to questions and comments from the public.

### **TASK 1.6 DREXEL ROAD BRIDGE COORDINATION**

The Structural Subconsultant shall coordinate with the City of Tucson Drexel Road Bridge design team to coordinate structural features with the design parameters established by the Drexel Road Bridge team.

### **TASK 10.0 FEASIBILITY REPORT**

The Structural Subconsultant will provide consulting services as required to support the development of the feasibility study. It is anticipated that direct coordination with the Prime Consultant, Drainage Subconsultant, and Geotechnical Subconsultant will occur to address bank protection concepts, drainage structure concepts, and pedestrian bridge concepts.

### **TASK 11.0 FINAL PLANS, SPECIAL PROVISIONS, OPINION OF PROBABLE CONSTRUCTION COSTS, & BID TABULATION**

The Structural Subconsultant will perform analysis and design with the objective to prepare structural discipline construction plans and special provisions, and to support the Consultant in preparation of an opinion of probable construction cost for the project. The following structural engineering subtasks are anticipated for the project:

- Pedestrian Bridge – prefabricated steel truss pedestrian bridge and associated foundations. The bridge is anticipated to span approximately 75-feet and provide approximately 12-feet

- to 14-feet for the bridge deck width. The bridge deck is expected to be cast-in-place concrete and the foundations are expected to include abutments founded on shallow spread footings (only if scour protected) or drilled shafts. Design criteria will be in conformance with AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, current edition.
- Reinforced Concrete Box Culvert – CIP box culvert and associated walls and foundations. The culvert is anticipated to be a triple box spanning from west to east below the west bank loop path and outletting into the Santa Cruz River. Tasks assume the main bodies of the box structures will be based on standard ADOT box culvert drawings, with walls and inlet / outlet structures customized to suit the project conditions.
  - Pipe Culvert Junction Box – CIP concrete custom junction box (in-ground vault) or headwall near intersection of Drexel and Santa Clara. The junction box/headwall will support project pipe culverts from the intersection to the east bank of the Santa Cruz River and provide a connection point for future drainage solutions that fall under the Drexel Road Bridge project scope.
  - Channel Lining – water-tight concrete lined channel from Mahan Dr. to the west bank of the Santa Cruz River. The channel will parallel the Drexel Rd. extension and connect to the proposed RCBC at the loop path. Water-tight features are anticipated due to the poor soils that exist on the west bank of the river.
  - Coordination and limited detailing for bank protection solutions – Coordination with the Civil Consultant, the Geotechnical Subconsultant, and the Drainage Subconsultant as required to provide structural recommendations and detailing for bank protection solutions yet to be developed.
  - Miscellaneous structures – assumes two additional minor structures to support the final design elements for the River Park and bank improvements.

The Structural Subconsultant will support the Prime Consultant with structural discipline information for use in developing the following:

- Opinion of Probable Construction Costs
- Bid Tabulation (90% and 100% Only)

Structural discipline deliverables are anticipated to include:

- Construction Plans (11" x 17" format unless requested otherwise) – submittals will include greater detail as the project progresses. (60% and 100%-sealed Only)
- Structural Calculations (100%-sealed Only)
- Special Provisions (60% and 100% Only)

The Structural Subconsultant may be called upon to perform services unknown or identified subsequent to the original scoping of the final design. This work shall be performed under the Unforeseen Work item.

## **TASK 12.0    QUALITY CONTROL REVIEW**

The Structural Subconsultant shall perform Quality Control Reviews for structural discipline project deliverables.

## **TASK 13.0 PROJECT MANAGEMENT**

The Structural Subconsultant will perform invoicing, budget review, and internal project management as required to complete a successful project.

### **Exclusions**

The scope of work is based on the following assumptions or exclusions:

1. Post design services, such as bidding phase services and construction phase services are specifically excluded. SCI is happy to participate in such services as additional services or under a separate scope of work.
2. Scope of work excludes structural special inspection services. SCI is happy to participate in such services as additional services or under a separate scope of work.

### **Fees**

SCI proposes to provide these services at our established hourly rates on file with Pima County and will set a ***Cost Plus Fixed Fee of \$67,980.69***. Please refer to the attached Fee Estimate Summary, Fee Schedule, and Manhour Derivation Worksheet for a breakdown of how the fees were established. Please note that derivation is intended as an estimate for the total fee and is not a fixed, not-to-exceed amount for individual subtasks.

We appreciate the opportunity to be of service. Please call if you have any questions.

Sincerely,  
Structural Concepts Inc.,



Jennifer M. Patronska, P.E., S.E.  
Principal

Attachment: Schedule Billing Rates  
Fee Schedule  
Man Hour Estimate

Distribution: addressee via email, [Rick.solis@solisengco.com](mailto:Rick.solis@solisengco.com)  
Amy Lewis, Structural Concepts, Inc., [alewis@scice.com](mailto:alewis@scice.com)

**BILLING RATE SCHEDULE for Structural Concepts, Inc. Consulting Engineers****24076PFC - Drexel to Valencia East Bank Restoration****December 18, 2025****TASK A**

Classification	Direct Labor (DL)	Overhead (OH) (DL x 140%)	Fixed Fee ((DL + OH) * 8%)	Total Fees (DL + OH + FF)
Principal	\$82.95	\$116.13	\$15.93	\$215.00
Senior Struc Eng.	\$68.29	\$95.60	\$13.11	\$177.00
Project Manager	\$74.46	\$104.24	\$14.30	\$193.00
Project Struc. Eng.	\$63.27	\$88.58	\$12.15	\$164.00
Designer	\$49.00	\$68.59	\$9.41	\$127.00
CADD	\$39.35	\$55.09	\$7.56	\$102.00
Clerical/Admin	\$28.16	\$39.43	\$5.41	\$73.00

**FEE SCHEDULE**  
**24076PFC - DREXEL TO VALENCIA EAST BANK RESTORATION**  
**Design Engineering Services**  
**STRUCTURAL CONCEPTS INC.**  
**January 22, 2026**

**Direct Labor:**

<u>Classification</u>	<u>Estimated Hours</u>	<u>Direct+OH Labor Rate</u>	<u>Direct Labor Rate</u>	<u>Loaded Labor Costs</u>
Principal (Structures Lead Engineer)	76	\$199.08	\$82.95	\$15,130.08
Senior A/E	108	\$163.89	\$68.29	\$17,700.12
Project Manger	0	\$178.70	\$74.46	\$0.00
A/E	101	\$151.85	\$63.27	\$15,336.85
Designer	0	\$117.59	\$49.00	\$0.00
CADD	130	\$94.44	\$39.35	\$12,277.20
Clerical / Admin	37	\$67.59	\$28.16	\$2,500.83
<b>Direct Labor (DL)</b>	<b>452</b>			<b>\$62,945.08</b>

**Estimated Direct Expenses**

<u>Type</u>	<u>Amount</u>	<u>Unit Costs</u>	<u>Cost</u>
-	1	\$0.00	\$0.00
<b>Total of Direct Expenses</b>			<b>\$0.00</b>

**Estimated Outside Expenses**

<u>Firm</u>	<u>Service</u>	<u>Cost</u>
-	-	\$0.00
<b>Total of Outside Expenses</b>		<b>\$0.00</b>

**Fixed Fee (8% of Labor Cost)** \$5,035.61

**Total Estimated Costs** \$67,980.69

Task No.	Description	No. of Sheets	Total Hours	Principal (Structures Lead Engineer)	\$ 199.08	Senior A/E	\$ 163.89	Project Manager	\$ 178.70	A/E	\$ 151.85	Designer	\$ 117.59	CADD	\$ 94.44	Clerical / Admin	\$ 67.59	-	\$ -	-	\$ -	\$ -	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task		
					Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour			
					Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount		
<b>1.0</b>	<b>PROJECT COORDINATION</b>		<b>48</b>	<b>17</b>	\$ 3,384.36	17	\$ 2,786.13	0	\$ -	1	\$ 151.85	0	\$ -	0	\$ -	13	\$ 878.67	0	\$ -	0	\$ -	0	\$ -	\$ 7,201.01	\$ 576.08	\$ -	\$ 7,777.09	
1.1.2	Final Design Kick-off Meeting		4	1	\$ 199.08	1	\$ 163.89	0	\$ -	1	\$ 151.85	0	\$ -	0	\$ -	1	\$ 67.59	0	\$ -	0	\$ -	0	\$ -	\$ 582.41	\$ 46.59			
1.1.3	Field Meeting		6	2	\$ 398.16	2	\$ 327.78	0	\$ -	0	\$ -	0	\$ -	0	\$ -	2	\$ 135.18	0	\$ -	0	\$ -	0	\$ -	\$ 861.12	\$ 68.89			
1.1.6	Consultant Team Meeting		18	6	\$ 1,194.48	6	\$ 983.34	0	\$ -	0	\$ -	0	\$ -	0	\$ -	6	\$ 405.54	0	\$ -	0	\$ -	0	\$ -	\$ 2,583.36	\$ 206.67			
1.3	Public Participation		12	4	\$ 796.32	4	\$ 655.56	0	\$ -	0	\$ -	0	\$ -	0	\$ -	4	\$ 270.36	0	\$ -	0	\$ -	0	\$ -	\$ 1,722.24	\$ 137.78			
1.6	Drexel Road Bridge Coordination		8	4	\$ 796.32	4	\$ 655.56	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,451.88	\$ 116.15			
<b>10.0</b>	<b>FEASIBILITY REPORT</b>		<b>8</b>	<b>8</b>	<b>\$ 1,592.64</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 1,592.64</b>	<b>\$ 127.41</b>	<b>\$ -</b>	<b>\$ 1,720.05</b>	
10.1.1	Initial Feasibility Report		4	4	\$ 796.32	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 796.32	\$ 63.71			
10.1.2	Final Feasibility Report		4	4	\$ 796.32	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 796.32	\$ 63.71			
<b>11.0</b>	<b>FINAL PLANS, SPECIAL PROVISIONS, COSTS, &amp; BID TABULATION</b>																											
<b>11.1</b>	<b>30% Design Phase Plans</b>		<b>12</b>	<b>4</b>	<b>\$ 796.32</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>8</b>	<b>\$ 1,214.80</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 2,011.12</b>	<b>\$ 160.89</b>	<b>\$ -</b>	<b>\$ 2,172.01</b>	
	<b>COST ESTIMATE</b>																											
	Opinion of Probable Cost / Bid Tabulation		12	4	\$ 796.32	0	\$ -	0		8	\$ 1,214.80	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 2,011.12	\$ 160.89			
<b>11.2</b>	<b>60% Design Phase Plans</b>		<b>214</b>	<b>20</b>	<b>\$ 3,981.60</b>	<b>56</b>	<b>\$ 9,177.84</b>	<b>0</b>	<b>\$ -</b>	<b>64</b>	<b>\$ 9,718.40</b>	<b>0</b>	<b>\$ -</b>	<b>74</b>	<b>\$ 6,988.56</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 29,866.40</b>	<b>\$ 2,389.31</b>	<b>\$ -</b>	<b>\$ 32,255.71</b>	
	<b>GENERAL PLANS</b>																											
	SCI - (2) Detail Sheet -East Junction Headwall		1	38	2	\$ 398.16	8	\$ 1,311.12	0	\$ -	16	\$ 2,429.60	0	\$ -	12	\$ 1,133.28	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 5,272.16	\$ 421.77		
	SCI - (1) Detail Sheet - West Concrete Watertight Channel		2	26	2	\$ 398.16	12	\$ 1,966.68	0	\$ -	0	\$ -	0	\$ -	12	\$ 1,133.28	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 3,498.12	\$ 279.85		
	SCI - (3) Detail Sheet - West RCBC		3	48	4	\$ 796.32	24	\$ 3,933.36	0	\$ -	0	\$ -	0	\$ -	20	\$ 1,888.80	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 6,618.48	\$ 529.48		
	SCI - (5) Bridge Sheets - Pedestrian Bridge & Abutments		3	86	4	\$ 796.32	12	\$ 1,966.68	0	\$ -	40	\$ 6,074.00	0	\$ -	30	\$ 2,833.20	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 11,670.20	\$ 933.62		
	Opinion of Probable Cost / Bid Tabulation		1	10	2	\$ 398.16	0	\$ -	0		8	\$ 1,214.80	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,612.96	\$ 129.04		
	Special Provisions		1	6	6	\$ 1,194.48	0	\$ -	0		0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,194.48	\$ 95.56		
	Respond to Written Comments		0			\$ -		\$ -			\$ -		\$ -												\$ -	\$ -		
<b>11.3</b>	<b>100% Design Phase Plans</b>		<b>134</b>	<b>15</b>	<b>\$ 2,986.20</b>	<b>35</b>	<b>\$ 5,736.15</b>	<b>0</b>	<b>\$ -</b>	<b>28</b>	<b>\$ 4,251.80</b>	<b>0</b>	<b>\$ -</b>	<b>56</b>	<b>\$ 5,288.64</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 18,262.79</b>	<b>\$ 1,461.02</b>	<b>\$ -</b>	<b>\$ 19,723.81</b>	
	<b>GENERAL PLANS</b>																											
	SCI - (2) Detail Sheet -East Junction Headwall		1	34	2	\$ 398.16	10	\$ 1,638.90	0	\$ -	10	\$ 1,518.50	0	\$ -	12	\$ 1,133.28	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 4,688.84	\$ 375.11		
	SCI - (1) Detail Sheet - West Concrete Watertight Channel		2	17	2	\$ 398.16	3	\$ 491.67	0	\$ -	0	\$ -	0	\$ -	12	\$ 1,133.28	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 2,023.11	\$ 161.85		
	SCI - (3) Detail Sheet - West RCBC		3	24	2	\$ 398.16	10	\$ 1,638.90	0	\$ -	0	\$ -	0	\$ -	12	\$ 1,133.28	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 3,170.34	\$ 253.63		
</																												

# **WILDER LANDSCAPE ARCHITECTS (SBE)**

## **PROPOSAL**

January 11, 2026

Rick Solis  
Solis Engineering Co.  
239 N. Church Ave  
Tucson, AZ 85701  
email: rick.solis@solisengco.com

**Proposal for Landscape Architectural Services for the Drexel to Valencia East Bank Restoration project**

Dear Rick,

This proposal covers landscape architectural services for the PCRFCD Drexel to Valencia East Bank Restoration project. Wilder Landscape Architects (Wilder) will provide:

- Invasive Species Mapping
- Native Plant Mapping to guide preservation of native specimen trees and large shrubs where feasible
- SWPPP, inclusive of Erosion and Pollution Control Plans and Details and PDF 'Binder'
- Landscape and Irrigation Plans
- Renderings for Public Meeting
- COT ERZ, including preparation of Environmental Resource Report if required due to project impact.

**TASKS AND DELIVERABLES**

**Task 1.1: Meetings / Coordination**

Wilder staff will participate in the following meetings:

- Kick-off Meeting (virtual): 1
- Field Meeting: 1
- Stakeholder / Progress Meeting (virtual): 12
- Public Meetings: 2
- Consultant Team Meetings (virtual): 9

**Task 1.3: Public Participation**

Wilder staff (2 team members) will attend one public meeting and one stakeholder meeting and will assist PCRFCD with responses to questions and comments from the public, under the direction of Pima County Community Relations Office members.

Wilder will develop four rendered graphics, two plan view and two perspective views, of key project elements.

#### Deliverables

- Two rendered plan graphics showing a typical site area with proposed restoration treatments. Images / narrative descriptions will be used to help illustrate strategies.
- Two perspective renderings illustrating a key site element (to be determined as the project progresses). The viewpoints for the renderings will be approved by PCRFCD prior to start of rendering.
- All renderings will be 24" x 36", printed in color and mounted on gator board for presentation at public meetings.

#### **Task 2.0: Survey, Mapping, and ROW**

Wilder will perform invasive species mapping and native plant mapping under this Task.

#### **Task 2.5 Invasive Species Mapping**

Wilder will inventory the top of bank area (45 acres) depicted on the Mapping Extents Exhibit for high-priority invasive species for treatment by the Contractor prior to or during construction. Species to be inventoried are: buffelgrass, *Pennisetum*, stinknet, *Oncosiphon piluliferum*, yellow bluestem, *Bothriochloa ischaemum*, Bermudagrass, *Cynodon dactylon*, blue panic grass, *Panicum antidotale*, fountain grass, *Pennisetum setaceum*, and Johnson grass, *Sorghum halepense*. All non-native trees will be mapped.

This species list will be reviewed with PCRFCD prior to mapping and may be adjusted based on their input.

#### Deliverables

- Invasive Species Plans (scale 1" = 40') including specifications for treatment. Trees will be shown as individual points; grasses will be shown by area. Total area of treatment will be calculated.

#### **Task 2.6 Native Plant Mapping**

Wilder will inventory (GPS locate) existing trees and large shrubs on site within the area (60 acres) identified on the Mapping Extents Exhibit, so that these can be considered for preservation during design. Information to be collected: tree species, height, caliper, and health (high, medium, low). Plants will not be tagged or flagged. The collected points will be provided to Solis Engineering so that healthy native plants may be taken into consideration for preservation in place by the design team.

#### Deliverables

- AutoCAD file of inventoried plants. Plants will be reflected on the Landscape Plans - no native plant Preservation Plans will be provided, and no mitigation for plants removed will be calculated.

#### **Task 8.0: Cultural Resources Coordination**

Wilder will coordinate with the Office of Cultural Resources for appropriate landscape / restoration features in areas of archaeological significance.

Landscape work including water harvesting / restoration / planting and irrigation within areas of archaeological significance will reflect the guidance provided by them.

### **Task 10.0: Feasibility Report + 10% Plans**

Wilder will assist with / prepare the sections of the Feasibility Report related to the following items:

- A. Existing Vegetation
- B. Water Harvesting and Restoration Elements
- C. Landscape and Irrigation
- D. AZPDES Stormwater Permit
- E. Design Criteria for Bicycle and Pedestrian Trails
- F. Mapped ERZ (Environmental Resource Zone) at Valencia Wash. Wilder will discuss potential impacts with the City. Should an ERR (Environmental Resource Report) be required, this will be prepared under Task 12.0.

#### **Deliverables**

- Report narrative for the sections listed above.
- Landscape Concept Plans (10%). Plans will be drafted at 1" = 40' and will include trail system layout, conceptual water harvesting areas, and tree planting. Proposed restoration strategies / habitat elements will be described via narrative.
- OPC.
- Wilder will participate in an over-the-shoulder review conference with District staff to evaluate the 10% Plans.
- Written responses to all comments received on the 10% plans.

### **Task 11.0: Plans, Special Provisions, OPC + Bid Tabs**

Wilder will develop the following plans:

- Landscape plans (scale 1" = 20') inclusive of planting, passive water harvesting, river park elements (trail systems) and restoration / habitat elements. Plans will include preservation of trees to remain in place. Landscape plans will meet the general intent of the Pima County Native Plant Preservation Ordinances (and related ordinances and/or development standards) relative to preservation of native plant specimens in-place when feasible. Native Plant Preservation Plans (NPPP) are not included in the scope of this project.
- Irrigation Plans (scale 1" = 40'), including schedule for establishment.
- Erosion and Sediment Control Plans (scale 1" = 40'), and SWPPP binder. These plans will include hydroseeding.
- An Environmental Resource Report will be prepared if required based on impact to the mapped City Environmental Resource Zone at Valencia Wash.

Wilder will participate in an over-the-shoulder review conference with District staff to evaluate the 30%, 60% and 100% submittals.

### **30% Submittal:**

#### Deliverables

- Landscape Plans will include trail system layout, conceptual water harvesting areas, tree planting, and hatches to indicate areas of understory planting. Status of existing trees will be indicated (preserve-in-place or removed). Proposed restoration strategies / habitat elements will be described via narrative. At this 30% stage, point of connection for irrigation water and electrical, potential mainline routing, mainline sizing, and valve locations will be shown on the Landscape Plans.
- OPC
- Wilder will participate in an over-the-shoulder review conference with District staff to evaluate the 30% Plans.
- Written responses to all comments received on the 30% plans.

No Erosion and Sediment Control Plans or SWPPP binder will be prepared at this stage.

No Irrigation Plans will be prepared at this stage.

No details will be provided.

### **60% Submittal:**

#### Deliverables

- Landscape Plans will include trail system layout, water harvesting areas and planting (proposed and existing to remain). Restoration strategies / habitat elements will be shown.
- Preliminary Landscape Details.
- Irrigation Plans with complete layout and lateral lines.
- Irrigation Details.
- Erosion and Sediment Control Plans and SWPPP binder.
- Specifications
- OPC
- Wilder will participate in an over-the-shoulder review conference with District staff to evaluate the 60% Plans.
- Written responses to all comments received on the 60% plans.
- Environmental Resource Report for submission to the City of Tucson.

### **100% Sealed Submittal:**

#### Deliverables

- Signed and sealed landscape and irrigation plans and details.
- Signed and Sealed Erosion and Sediment Control Plans and SWPPP binder.
- Specifications
- OPC
- Environmental Resource Report for submission to the City of Tucson.

**Anticipated Landscape sheets**

Sheet	30%	60%	100%
Cover Sheet	1	1	1
Landscape Schedules and Notes	1	1	1
Landscape Details		3	3
Landscape Plans (20-Scale)	18	18	18
<b>Landscape Total</b>	<b>20</b>	<b>23</b>	<b>23</b>

**Anticipated Irrigation sheets**

Sheet	30%	60%	100%
Cover Sheet	0	1	1
Irrigation Schedules and Notes	0	2	2
Irrigation Details	0	2	2
Irrigation Plans (40-Scale)	0	8	8
<b>Irrigation Total</b>	<b>0</b>	<b>13</b>	<b>13</b>

**Anticipated ESC sheets + SWPPP Binder**

Sheet	30%	60%	100%
Cover Sheet	0	1	1
ESC Schedules and Notes	0	2	2
ESC Details	0	8	8
ESC Plans (40-Scale)	0	8	8
SWPPP Binder	No	Yes	Yes
<b>ESC Total</b>	<b>0</b>	<b>19</b>	<b>19</b>

**Task 12.0: Quality Control Review**

Wilder will perform Quality Control Reviews for all project deliverables.

**Assumptions and Conditions:**

- Solis Engineering will provide project base files in AutoCAD format.
- All deliverables will be provided to Solis Engineering in PDF format, except for four each renderings which will be plotted in color and mounted on gator board (refer to Task 1.3).
- Plans will be drafted in AutoCAD 2025.

**Fee: Refer to Fee Schedule, attached**

Work will be provided on a cost plus fixed fee basis, billed monthly based on percent of work complete. Work beyond the scope outlined will be considered an additional service and will not proceed without approval from the Client.

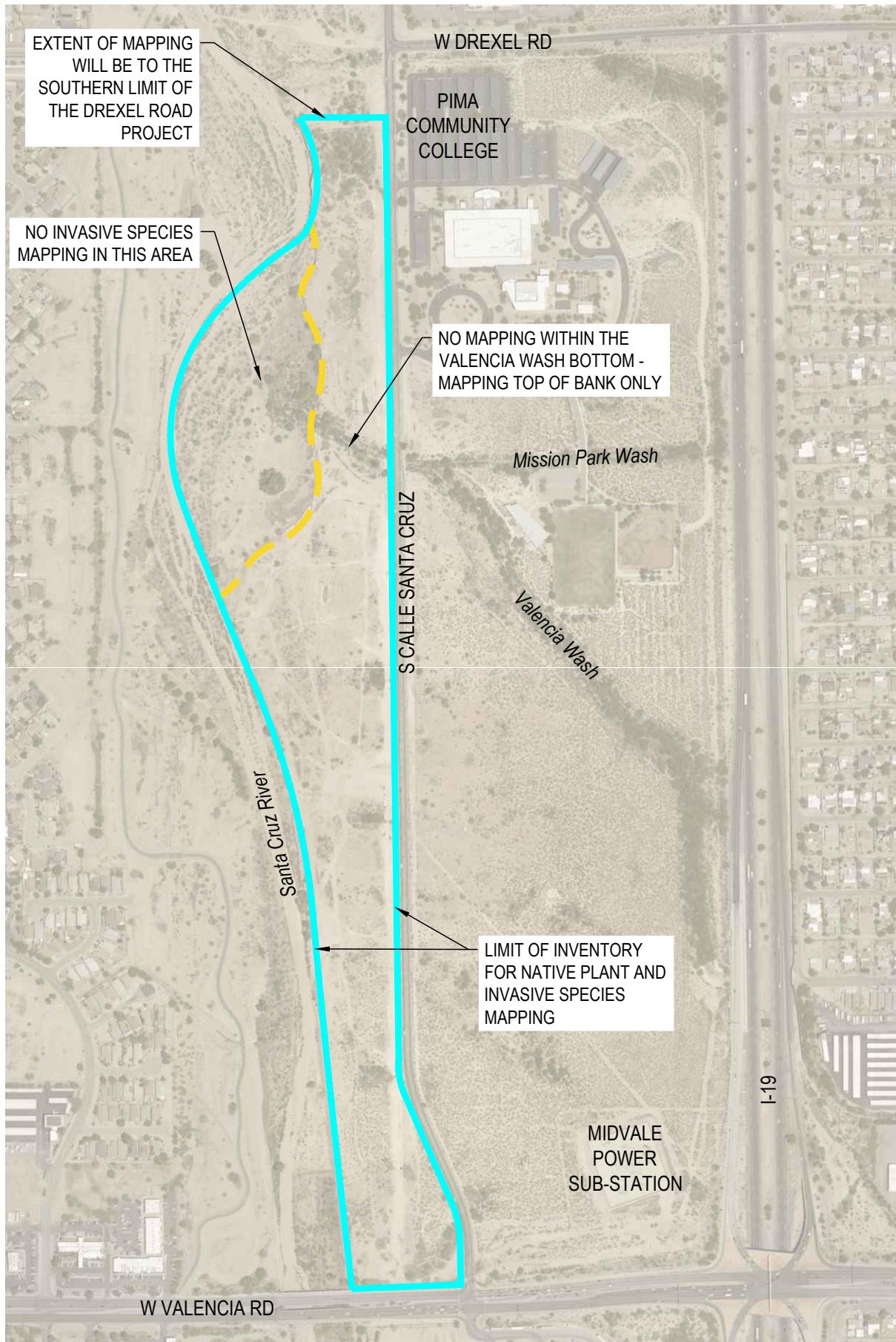
I am looking forward to working with you and your team on this project. Please let me know if you have any questions or need additional information.

Best regards,



Jennifer Patton

Principal, Wilder Landscape Architects  
520-481-2328; [jennifer@wilderla.com](mailto:jennifer@wilderla.com)



## DREXEL EAST BANK MAPPING EXTENTS



**FEE SCHEDULE**  
**24076PFC - DREXEL TO VALENCIA EAST BANK RESTORATION**  
**Design Engineering Services**  
**Wilder Landscape Architects**  
**January 23, 2026**

**Direct Labor:**

<u>Classification</u>	<u>Estimated Hours</u>	<u>Direct+OH Labor Rate</u>	<u>Direct Labor Rate</u>	<u>Loaded Labor Costs</u>
Principal	209	\$150.00	\$60.00	\$31,350.00
Project Manager	511	\$117.50	\$47.00	\$60,042.50
Designer	242	\$95.00	\$38.00	\$22,990.00
<b>Direct Labor (DL)</b>		<b>1004</b>		<b>\$115,582.50</b>

**Estimated Direct Expenses**

<u>Type</u>	<u>Amount</u>	<u>Unit Costs</u>	<u>Cost</u>
Printing (full color) and mounting of renders for public meeting:	4	\$135.00	\$540.00
Exp	1	\$0.00	\$0.00
Exp	1.00	\$0.00	\$0.00

<b>Total of Direct Expenses</b>	<b>\$540.00</b>
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**Estimated Outside Expenses**

<u>Firm</u>	<u>Service</u>	<u>Cost</u>
Sub1	Serv1	\$0.00
Sub2	Serv2	\$0.00
Sub3	Serv3	\$0.00
Sub4	Serv4	\$0.00
Sub5	Serv5	\$0.00
Sub6	Serv6	\$0.00
Sub7	Serv7	\$0.00

<b>Total of Outside Expenses</b>	<b>\$0.00</b>
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<b>Fixed Fee (8% of Labor Cost)</b>	<b>\$9,246.60</b>
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<b>Total Estimated Costs</b>	<b>\$125,369.10</b>
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Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 150.00	Project Manager	\$ 117.50	Designer	\$ 95.00	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task
					Per / Hour		Per / Hour		Per / Hour				
				Hours	Amount	Hours	Amount	Hours	Amount				
<b>2.0</b>	<b>PROJECT COORDINATION</b>		<b>172</b>	<b>29</b>	<b>\$ 4,350.00</b>	<b>69</b>	<b>\$ 8,107.50</b>	<b>74</b>	<b>\$ 7,030.00</b>	<b>\$ 19,487.50</b>	<b>\$ 1,559.00</b>	<b>\$ -</b>	<b>\$ 21,046.50</b>
1.1.1	Project Coordination (General)		12	6	\$ 900.00	6	\$ 705.00	0	\$ -	\$ 1,605.00	\$ 128.40		
1.1.2	Final Design Kick-off Meeting		4	2	\$ 300.00	2	\$ 235.00	0	\$ -	\$ 535.00	\$ 42.80		
1.1.3	Field Meeting		10	5	\$ 750.00	5	\$ 587.50	0	\$ -	\$ 1,337.50	\$ 107.00		
1.1.4	Stakeholder /Progress Meeting		12	0	\$ -	12	\$ 1,410.00	0	\$ -	\$ 1,410.00	\$ 112.80		
1.1.5	Public Meeting		16	8	\$ 1,200.00	8	\$ 940.00	0	\$ -	\$ 2,140.00	\$ 171.20		
1.1.6	Consultant Team Meeting		12	0	\$ -	12	\$ 1,410.00	0	\$ -	\$ 1,410.00	\$ 112.80		
1.1.7	Utility Coordination Meeting		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.8	Drexel Bridge Coordination Meeting		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.2	Project Schedule		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.3	Public Participation		106	8	\$ 1,200.00	24	\$ 2,820.00	74	\$ 7,030.00	\$ 11,050.00	\$ 884.00		
1.5	Miscellaneous Project Graphics		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.6	Drexel Road Bridge Coordination		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>2.0</b>	<b>SURVEY, MAPPING AND RIGHT-OF-WAY</b>		<b>70</b>	<b>8</b>	<b>\$ 1,200.00</b>	<b>34</b>	<b>\$ 3,995.00</b>	<b>28</b>	<b>\$ 2,660.00</b>	<b>\$ 7,855.00</b>	<b>\$ 628.40</b>	<b>\$ -</b>	<b>\$ 8,483.40</b>
2.1	Field Survey (Boundary, right-of-way, and topography survey)		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.2	Conditions of Title		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.3	Plot Identified Easements (Alta Survey)		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.4	Miscellaneous Spot Survey		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.5	Invasive Species Mapping		44	4	\$ 600.00	26	\$ 3,055.00	14	\$ 1,330.00	\$ 4,985.00	\$ 398.80		
2.6	Native Plant Mapping		26	4	\$ 600.00	8	\$ 940.00	14	\$ 1,330.00	\$ 2,870.00	\$ 229.60		
<b>8.0</b>	<b>CULTURAL RESOURCES COORDINATION</b>		<b>8</b>	<b>4</b>	<b>\$ 600.00</b>	<b>4</b>	<b>\$ 470.00</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 1,070.00</b>	<b>\$ 85.60</b>	<b>\$ -</b>	<b>\$ 1,155.60</b>
8.1	Obtain Cultural Extents & Construction Requirements from Pima County		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
8.2	Obtain Feedback from Pima County Cultural Resources And Historic Preservation Office on Project Improvements		8	4	\$ 600.00	4	\$ 470.00	0	\$ -	\$ 1,070.00	\$ 85.60		
8.3	Request and Incorporate Cultural commitments into the special provisions		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>10.0</b>	<b>FEASIBILITY REPORT</b>		<b>110</b>	<b>28</b>	<b>\$ 4,200.00</b>	<b>74</b>	<b>\$ 8,695.00</b>	<b>8</b>	<b>\$ 760.00</b>	<b>\$ 13,655.00</b>	<b>\$ 1,092.40</b>	<b>\$ -</b>	<b>\$ 14,747.40</b>
10.1.1	Initial Feasibility Report		36	8	\$ 1,200.00	28	\$ 3,290.00	0	\$ -	\$ 4,490.00	\$ 359.20		
10.1.2	Final Feasibility Report		16	6	\$ 900.00	10	\$ 1,175.00	0	\$ -	\$ 2,075.00	\$ 166.00		
10.1.3	<b>10% Concept Plans</b>												
	10% Concept Plans including water harvesting strategies	10	44	8	\$ 1,200.00	28	\$ 3,290.00	8	\$ 760.00	\$ 5,250.00	\$ 420.00		
	OPC	0	6	2	\$ 300.00	4	\$ 470.00	0	\$ -	\$ 770.00	\$ 61.60		
	OTS review and written responses		8	4	\$ 600.00	4	\$ 470.00	0	\$ -	\$ 1,070.00	\$ 85.60		

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 150.00	Project Manager	\$ 117.50	Designer	\$ 95.00	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task
11.0	FINAL PLANS, SPECIAL PROVISIONS, COSTS, & BID TABULATION												
11.1	30% Design Phase Plans		102	18	\$ 2,700.00	52	\$ 6,110.00	32	\$ 3,040.00	\$ 11,850.00	\$ 948.00	\$ -	\$ 12,798.00
	LDSCP PLANS				\$ -		\$ -		\$ -				
	Ldscp Plans	20	86	12	\$ 1,800.00	42	\$ 4,935.00	32	\$ 3,040.00	\$ 9,775.00	\$ 782.00		
	OPC		6	2	\$ 300.00	4	\$ 470.00	0	\$ -	\$ 770.00	\$ 61.60		
	OTS review and written responses		10	4	\$ 600.00	6	\$ 705.00	0	\$ -	\$ 1,305.00	\$ 104.40		
			0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
11.2	60% Design Phase Plans		338	58	\$ 8,700.00	174	\$ 20,445.00	64	\$ 6,080.00	\$ 36,425.00	\$ 2,914.00	\$ -	\$ 39,339.00
	LDSCP PLANS												
	Ldscp Plans	20	42	6	\$ 900.00	24	\$ 2,820.00	12	\$ 1,140.00	\$ 4,860.00	\$ 388.80		
	Ldscp Details	3	16	0	\$ -	12	\$ 1,410.00	4	\$ 380.00	\$ 1,790.00	\$ 143.20		
	Irrig Plans	11	40	6	\$ 900.00	28	\$ 3,290.00	6	\$ 570.00	\$ 4,760.00	\$ 380.80		
	Irrig Details	2	8	0	\$ -	8	\$ 940.00	0	\$ -	\$ 940.00	\$ 75.20		
	ESC Plans	19	47	8	\$ 1,200.00	24	\$ 2,820.00	8	\$ 760.00	\$ 4,980.00	\$ 398.40		
	SWPPP Report / Binder		58	12	\$ 1,800.00	26	\$ 3,055.00	6	\$ 570.00	\$ 5,825.00	\$ 466.00		
	Specifications		47	8	\$ 1,200.00	18	\$ 2,115.00	0	\$ -	\$ 3,915.00	\$ 313.20		
	OPC		6	2	\$ 300.00	4	\$ 470.00	0	\$ -	\$ 770.00	\$ 61.60		
	OTS review and written responses to comments		10	4	\$ 600.00	6	\$ 705.00	0	\$ -	\$ 1,305.00	\$ 104.40		
	ERR inclusive of fieldwork		64	12	\$ 1,800.00	24	\$ 2,820.00	28	\$ 2,660.00	\$ 7,280.00	\$ 582.40		
11.3	100% Design Phase Plans		156	34	\$ 5,100.00	86	\$ 10,105.00	36	\$ 3,420.00	\$ 18,625.00	\$ 1,490.00	\$ -	\$ 20,115.00
	LDSCP PLANS												
	Ldscp Plans	20	32	6	\$ 900.00	14	\$ 1,645.00	12	\$ 1,140.00	\$ 3,685.00	\$ 294.80		
	Ldscp Details	3	10	0	\$ -	4	\$ 470.00	6	\$ 570.00	\$ 1,040.00	\$ 83.20		
	Irrig Plans	11	32	2	\$ 300.00	18	\$ 2,115.00	12	\$ 1,140.00	\$ 3,555.00	\$ 284.40		
	Irrig Details	2	4	0	\$ -	4	\$ 470.00	0	\$ -	\$ 470.00	\$ 37.60		
	ESC Plans	19	26	4	\$ 600.00	16	\$ 1,880.00	6	\$ 570.00	\$ 3,050.00	\$ 244.00		
	SWPPP Report / Binder		14	6	\$ 900.00	8	\$ 940.00	0	\$ -	\$ 1,840.00	\$ 147.20		
	Specifications		12	4	\$ 600.00	8	\$ 940.00	0	\$ -	\$ 1,540.00	\$ 123.20		
	OPC		6	2	\$ 300.00	4	\$ 470.00	0	\$ -	\$ 770.00	\$ 61.60		
	OTS review and written responses to comments		10	4	\$ 600.00	6	\$ 705.00	0	\$ -	\$ 1,305.00	\$ 104.40		
	ERR inclusive of fieldwork		10	6	\$ 900.00	4	\$ 470.00	0	\$ -	\$ 1,370.00	\$ 109.60		
11.5	Unforeseen Work		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -
12.0	QUALITY CONTROL REVIEW		48	30	\$ 4,500.00	18	\$ 2,115.00	0	\$ -	\$ 6,615.00	\$ 529.20	\$ -	\$ 7,144.20

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 150.00	Project Manager	\$ 117.50	Designer	\$ 95.00	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task
12.10	Initial Feasibility Report		7	4	\$ 600.00	3	\$ 352.50	0	\$ -	\$ 952.50	\$ 76.20		
12.11	Final Feasibility Report		7	4	\$ 600.00	3	\$ 352.50	0	\$ -	\$ 952.50	\$ 76.20		
12.12	30% Design Phase Plans		10	6	\$ 900.00	4	\$ 470.00	0	\$ -	\$ 1,370.00	\$ 109.60		
12.13	60% Design Phase Plans		12	8	\$ 1,200.00	4	\$ 470.00	0	\$ -	\$ 1,670.00	\$ 133.60		
12.15	100% - Final PS&E Plans		12	8	\$ 1,200.00	4	\$ 470.00	0	\$ -	\$ 1,670.00	\$ 133.60		
<b>13.0</b>	<b>PROJECT MANAGEMENT</b>		<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
13.1	Perform invoicing, budget review, and subconsultant invoice review		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
13.2	Change Control Log		0	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>Totals</b>		1004	<b>209</b>	\$ 31,350.00	<b>511</b>	\$ 60,042.50	<b>242</b>	\$ 22,990.00	\$ 115,582.50	\$ 9,246.60	\$ -	\$ 124,829.10

**TIERRA RIGHT-OF-WAY LMTD.**

**PROPOSAL**



December 18, 2025  
Revised January 9, 2026

Rick Solis  
Solis Engineering Co.  
239 N. Church Ave  
Tucson, AZ 85701

**RE: Drexel to Valencia East Bank Restoration Project  
Environmental Services**

Dear Mr. Solis,

Tierra Right of Way Services (Tierra) is pleased to submit this scope of work to Solis Engineering to provide environmental services related to Pima County's Drexel to Valencia East Bank Restoration Project located along the Santa Cruz River, Tucson, Arizona. Based on communications from Solis Engineering, it is our understanding that the project area encompasses the eastern and western banks of the Santa Cruz River between Drexel and Valencia roads.

We prepared our modified cost-plus fixed fee estimate based off communications with, and a scope of work prepared by, Solis Engineering. Our estimated cost for this project is \$29,865.22. If you have any questions regarding this scope and fee, please contact me at [jennifer.jennings@tierra-row.com](mailto:jennifer.jennings@tierra-row.com) or at 520.319.2106.

Sincerely,

Jennifer Jennings  
Project Manager Environmental Compliance



**FEE SCHEDULE**  
**24076PFC - DREXEL TO VALENCIA EAST BANK RESTORATION**  
Design Engineering Services  
Tierra Right of Way Services  
January 22, 2026

**Direct Labor:**

<b>Classification</b>	<b>Estimated Hours</b>	<b>Direct+OH Labor Rate</b>	<b>Direct Labor Rate</b>	<b>Loaded Labor Costs</b>
ENV Division Director	24	\$158.69	\$67.78	\$3,808.56
ENV Planner Sr.	101	\$116.83	\$49.90	\$11,799.83
ENV Scientist	46	\$95.99	\$41.00	\$4,415.54
Biologist - Sr.	58	\$98.33	\$42.00	\$5,703.14
Technical Editor	12	\$70.24	\$30.00	\$842.88
ENV Project Coordinator	9	\$65.55	\$28.00	\$589.95
ENV GIS Technician	6	\$82.18	\$35.10	\$493.08
	0	\$0.00		\$0.00
	0	\$0.00		\$0.00
	0	\$0.00		\$0.00

**Direct Labor (DL)** 256 **\$27,652.98**

**Estimated Direct Expenses**

<b>Type</b>	<b>Amount</b>	<b>Unit Costs</b>	<b>Cost</b>
Exp	1	\$0.00	\$0.00
Exp	1	\$0.00	\$0.00
Exp	1.00	\$0.00	\$0.00

**Total of Direct Expenses** \$0.00

**Estimated Outside Expenses**

<b>Firm</b>	<b>Service</b>	<b>Cost</b>
Sub1	Serv1	\$0.00
Sub2	Serv2	\$0.00
Sub3	Serv3	\$0.00
Sub4	Serv4	\$0.00
Sub5	Serv5	\$0.00
Sub6	Serv6	\$0.00
Sub7	Serv7	\$0.00

Enter Firm Name Tierra Right of Way Services

Enter Overhead Here 1.3412

**Total of Outside Expenses** \$0.00

**Fixed Fee (8% of Labor Cost)** \$2,212.24

**Total Estimated Costs** \$29,865.22

## Tierra Right of Way Services

## **HOURS DERIVATION**

Task No.	Description	No. of Sheets	Total Hours	ENV Division Director	\$ 158.69	ENV Planner Sr.	\$ 116.83	ENV Scientist	\$ 95.99	Biologist - Sr.	\$ 98.33	Technical Editor	\$ 70.24	ENV Project Coordinator	\$ 65.55	ENV GIS Technician	\$ 82.18	January 0, 1900	\$ -	January 0, 1900	\$ -	January 0, 1900	\$ -	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task	
					Per / Hour		Per / Hour		Per / Hour		Per / Hour		Per / Hour		Per / Hour		Per / Hour		Per / Hour		Per / Hour		Per / Hour					
				Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount					
<b>2.0</b>	<b>PROJECT COORDINATION</b>	<b>85</b>	<b>7</b>	<b>\$ 1,110.83</b>	<b>49</b>	<b>\$ 5,724.67</b>	<b>17</b>	<b>\$ 1,631.83</b>	<b>6</b>	<b>\$ 589.98</b>	<b>0</b>	<b>\$ -</b>	<b>6</b>	<b>\$ 393.30</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 9,450.61</b>	<b>\$ 756.05</b>	<b>\$ -</b>	<b>\$ 10,206.66</b>
1.1.1	Project Coordination (General)	28	4	\$ 634.76	12	\$ 1,401.96	4	\$ 383.96	2	\$ 196.66	0	\$ -	6	\$ 393.30	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 3,010.64	\$ 240.85		
1.1.2	Final Design Kick-off Meeting	3	1	\$ 158.69	1	\$ 116.83	1	\$ 95.99	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 371.51	\$ 29.72		
1.1.3	Field Meeting	12	0	\$ -	4	\$ 467.32	4	\$ 383.96	4	\$ 393.32	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,244.60	\$ 99.57		
1.1.4	Stakeholder /Progress Meeting	20	0	\$ -	16	\$ 1,869.28	4	\$ 383.96	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 2,253.24	\$ 180.26		
1.1.5	Public Meeting	6	0	\$ -	6	\$ 700.98	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 700.98	\$ 56.08		
1.1.6	Consultant Team Meeting	16	2	\$ 317.38	10	\$ 1,168.30	4	\$ 383.96	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 1,869.64	\$ 149.57		
1.1.7	Utility Coordination Meeting	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.1.8	Drexel Bridge Coordination Meeting	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.2	Project Schedule	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.3	Public Participation	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.5	Miscellaneous Project Graphics	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
1.6	Drexel Road Bridge Coordination	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>2.0</b>	<b>SURVEY, MAPPING AND RIGHT-OF-WAY</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
2.1	Field Survey (Boundary, right-of-way, and topography survey)	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.2	Condition of Title	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.3	Plot Identified Easements (Alta Survey)	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.4	Miscellaneous Spot Survey	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.5	Invasive Species Mapping	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
2.6	Native Plant Mapping	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>3.0</b>	<b>HYDROLOGY AND HYDRAULICS</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
3.1	Initial Hydrologic & Hydraulic (H&H) Report	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
3.2	Final H&H Report	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
3.3	H&H Report Addendum	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>4.0</b>	<b>FEMA COMPLIANCE / COORDINATION</b>	<b>75</b>	<b>5</b>	<b>\$ 793.45</b>	<b>2</b>	<b>\$ 233.66</b>	<b>3</b>	<b>\$ 287.97</b>	<b>52</b>	<b>\$ 5,113.16</b>	<b>8</b>	<b>\$ 561.92</b>	<b>1</b>	<b>\$ 65.55</b>	<b>4</b>	<b>\$ 328.72</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 7,384.43</b>	<b>\$ 590.75</b>	<b>\$ -</b>	<b>\$ 7,975.66</b>						
4.1	CLOMR Preparation	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
4.2	Post Construction Mapping (LOMR)	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
4.3.1	Biological Evaluation	68	4	\$ 634.76	2	\$ 233.66	3	\$ 287.97	46	\$ 4,523.18	8	\$ 561.92	1	\$ 65.55	4	\$ 328.72	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 6,635.76	\$ 530.86		
4.3.2	Endangered Species Act (ESA) Compliance Letter	7	1	\$ 158.69	0	\$ -	0	\$ -	6	\$ 589.98	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 748.67	\$ 59.89		
4.3.3	Incorporate Biological commitments into the special provisions	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>5.0</b>	<b>GEOTECHNICAL</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
5.1	Cultural Clearance for Geotechnical Investigation	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
5.2	Geotechnical Investigation (Including Soil Cement Stability Analysis)	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>6.0</b>	<b>UTILITIES COORDINATION</b>	<b>0</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
6.1	Utility Coordination	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
6.2	Cultural Clearance for Potholing	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
6.3	Utility Potholing	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
<b>7.0</b>	<b>404 PERMITTING</b>	<b>32</b>	<b>3</b>	<b>\$ 476.07</b>	<b>26</b>	<b>\$ 3,037.58</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>2</b>	<b>\$ 140.48</b>	<b>1</b>	<b>\$ 65.55</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>\$ 3,719.68</b>	<b>\$ 297.57</b>	<b>\$ -</b>	<b>\$ 4,017.24</b>
7.1	Obtain Jurisdictional Delineation from Pima County	3	1	\$ 158.69	2	\$ 233.66	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 392.35	\$ 31.39		
7.2	Assist in obtaining the Section 404 permit for the project	2																										

## Tierra Right of Way Services

### HOURS DERIVATION

Task No.	Description	No. of Sheets	Total Hours	ENV Division Director	\$ 158.69	ENV Planner Sr.	\$ 116.83	ENV Scientist	\$ 95.99	Biologist - Sr.	\$ 98.33	Technical Editor	\$ 70.24	ENV Project Coordinator	\$ 65.55	ENV GIS Technician	\$ 82.18	January 0, 1900	\$ -	January 0, 1900	\$ -	January 0, 1900	\$ -	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task
	Opinion of Probable Cost / Bid Tabulation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
10.5	Drainage Technical Memorandum		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	11.0 FINAL PLANS, SPECIAL PROVISIONS, COSTS, & BID TABULATION																										
11.1	30% Design Phase Plans		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	GENERAL PLANS				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Cover sheet, Survey Control, Index Sheet	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(2) General Notes, Earthwork Quantities, & Legend Sheet	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(3) Typical Sections Sheets	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(3) Santa Cruz Riverbank Survey Control Sheets	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Summary Sheet - Pipe Culvert	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Summary Sheet - RCBC	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	EAST BANK AND SITE PLANS (AND WEST BANK AT DREXEL BRIDGE APPROACH)																										
	(3) Demolition Sheets (100 Scale)	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(3) Construction Access / Staging Yard / Maintenance of Traffic Plans	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(12) Plan & Profile - East Bank Soil Cement Protection	12	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(3) Plan & Profile - East Bank Soil Cement Plating	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Plan & Profile - West Bank Soil Cement Protection	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Site Construction Plan - West Pathway (at Drexel / Mahan Drive)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Site Construction Plan - East Pathway (at Drexel / Calle Santa Cruz)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(5) Site Construction Plans - East Riverbank to Calle Santa Cruz	5	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(18) Site Staking Plan Sheets - East Riverbank to Calle Santa Cruz	18	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(2) Site Staking Plan Sheets - West Bank (Drexel Bridge Approach)	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(7) Staking Point Table Sheets	7	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	EAST RIVERBANK CROSS DRAINAGE (AND DRAINAGE AT DREXEL BRIDGE APPROACH)																										
	(1) Plan & Profile - West Concrete Channel with Staking Points	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Plan & Profile - West 48-inch CMP Extension into Channel	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Plan & Profile - East 48-inch RCPS (Soil Cement to Junction Headwall)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Outfall Channel From Northern Curb Depression On Calle Santa Cruz	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Channel From Exist (2) 24" CMP On Calle Santa Cruz	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Valencia Wash Soil Cement Protection	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	PAVED PATHWAY PLANS																										
	(1) Summary Sheet - Signing	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) General Notes - Signing & Pavement Markings	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(10) Plan & Profile - Multiuse Pathway (Including Bridge Profile) (Including Signing & Striping)	10	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	DETAIL SHEETS																										
	(1) Detail Sheet - Slope Paving Bridge Approaches	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Bridge Approach Handrail (H=52-inch)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Stabilized Berm	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Concrete Grade Control	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Fencing Under Bridge Abutments	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Ext Soil Cement (2 locations)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Ext Gabions	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Upper Plating (At SC)</td																										

Tierra Right of Way Services

## **HOURS DERIVATION**

Task No.	Description	No. of Sheets	Total Hours	ENV Division Director	\$ 158.69	ENV Planner Sr.	\$ 116.83	ENV Scientist	\$ 95.99	Biologist - Sr.	\$ 98.33	Technical Editor	\$ 70.24	ENV Project Coordinator	\$ 65.55	ENV GIS Technician	\$ 82.18	January 0, 1900	\$ -	January 0, 1900	\$ -	January 0, 1900	\$ -	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task
	(5) Site Construction Plans - East Riverbank to Calle Santa Cruz	5	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(18) Site Staking Plan Sheets - East Riverbank to Calle Santa Cruz	18	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(2) Site Staking Plan Sheets - West Bank (Drexel Bridge Approach)	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(7) Staking Point Table Sheets	7	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>EAST RIVERBANK CROSS DRAINAGE (AND DRAINAGE AT DREXEL BRIDGE APPROACH)</b>																										
	(1) Plan & Profile - West Concrete Channel with Staking Points	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Plan & Profile - West 48-inch CMP Extension into Channel	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Plan & Profile - East 48-inch RCPs (Soil Cement to Junction Headwall)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Outfall Channel From Northern Curb Depression On Calle Santa Cruz	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Channel From Exist (2) 24" CMP On Calle Santa Cruz	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(2) Plan & Profile - Valencia Wash Soil Cement Protection	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>PAVED PATHWAY PLANS</b>																										
	(1) Summary Sheet - Signing	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) General Notes - Signing & Pavement Markings	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(10) Plan & Profile - Multiuse Pathway (Including Bridge Profile) (Including Signing & Striping)	10	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>DETAIL SHEETS</b>																										
	(1) Detail Sheet - Slope Paving Bridge Approaches	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Bridge Approach Handrail (H=52-inch)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Stabilized Bern	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Concrete Grade Control	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Fencing Under Bridge Abutments	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Ext Soil Cement (2 locations)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Ext Gabions	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Lower Flow Bank Protection and Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - New Soil Cement to Upper Plating (At Valencia Wash)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Concrete Spillways	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Detail Sheet - Interpretive Sign	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>CROSS SECTIONS</b>																										
	(12) Cross Sections at 100-ft intervals (5 per sheet)	12	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>COST ESTIMATE &amp; SPECIAL PROVISIONS</b>																										
	Opinion of Probable Cost / Bid Tabulation	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -		
	Special Provisions	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -		
	<b>11.3 100% Design Phase Plans</b>																										
	<b>GENERAL PLANS</b>																										
	(1) Cover sheet, Survey Control, Index Sheet	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(2) General Notes, Earthwork Quantities, & Legend Sheet	2	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(3) Typical Sections Sheets	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(3) Santa Cruz Riverbank Survey Control Sheets	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Summary Sheet - Pipe Culvert	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Summary Sheet - RCBC	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	<b>EAST BANK AND SITE PLANS (AND WEST BANK AT DREXEL BRIDGE APPROACH)</b>																										
	(3) Demolition Sheets (100 Scale)	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(3) Construction Access / Staging Yard / Maintenance of Traffic Plans	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(12) Plan & Profile - East Bank Soil Cement Protection	12	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(3) Plan & Profile - East Bank Soil Cement Plating	3	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Plan & Profile - West Bank Soil Cement Protection	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -		
	(1) Site Construction Plan - West Pathway (at Drexel / Mahan Drive)	1</td																									

**Tierra Right of Way Services**
**HOURS DERIVATION**

Task No.	Description	No. of Sheets	Total Hours	ENV Division Director	\$ 158.69	ENV Planner Sr.	\$ 116.83	ENV Scientist	\$ 95.99	Biologist - Sr.	\$ 98.33	Technical Editor	\$ 70.24	ENV Project Coordinator	\$ 65.55	ENV GIS Techician	\$ 82.18	January 0, 1900	\$ -	January 0, 1900	\$ -	January 0, 1900	\$ -	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task	
	(1) Detail Sheet - Stabilized Berm	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	(1) Detail Sheet - Concrete Grade Control	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	(1) Detail Sheet - Fencing Under Bridge Abutments	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	(1) Detail Sheet - New Soil Cement to Ext Soil Cement (2 locations)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	(1) Detail Sheet - New Soil Cement to Ext Gabions	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	(1) Detail Sheet - New Soil Cement to Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	(1) Detail Sheet - New Soil Cement to Lower Flow Bank Protection and Upper Plating (At SC)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	(1) Detail Sheet - New Soil Cement to Upper Plating (At Valencia Wash)	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	(1) Detail Sheet - Concrete Spillways	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	(1) Detail Sheet - Interpretive Sign	1	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	<b>CROSS SECTIONS</b>																											
	(12) Cross Sections at 100-ft intervals (5 per sheet)	12	0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	<b>COST ESTIMATE &amp; SPECIAL PROVISIONS</b>																											
	Opinion of Probable Cost / Bid Tabulation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
	Special Provisions		0	0	\$ -	0		0		0		0		0		0		0		0		0		0	\$ -	\$ -		
<b>11.5</b>	<b>Unforeseen Work</b>		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
			0		\$ -																							
<b>12.0</b>	<b>QUALITY CONTROL REVIEW</b>		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.1	Initial Hydrologic & Hydraulic (H&H) Report		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.2	Final Hydrologic & Hydraulic (H&H) Report		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.3	H&H Report Addendum		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.4	Biological Evaluation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.5	Endangered Species Act (ESA) Compliance Letter		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.6	Geotechnical Investigation (Including Soil Cement Stability Analysis)		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.7	Assist in obtaining the Section 404 permit for the project		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.8	Provide Preliminary Initial Site Assessment		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.9	Provide Lead-based paint and asbestos testing report		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.10	Initial Feasibility Report		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.11	Final Feasibility Report		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.12	30% Design Phase Plans		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.13	60% Design Phase Plans		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
12.15	100% - Final PS&E Plans		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
<b>13.0</b>	<b>PROJECT MANAGEMENT</b>	<b>8</b>	<b>4</b>	<b>\$ 634.76</b>	<b>4</b>	<b>\$ 467.32</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>0</b>	<b>\$ -</b>	<b>1,102.08</b>	<b>\$ 88.17</b>	<b>\$ -</b>	<b>\$ 1,190.25</b>
13.1	Perform invoicing, budget review, and subconsultant invoice review	8	4	\$ 634.76	4	\$ 467.32	0	\$ -	0		0		0		0		0		0		0		0		\$ 1,102.08	\$ 88.17		
13.2	Change Control Log	0	0	\$ -	0	\$ -	0	\$ -	0		0		0		0		0		0		0		0		\$ -	\$ -		
	<b>Totals</b>		256	24	\$ 3,808.56	101	\$ 11,799.83	46	\$ 4,415.54	58	\$ 5,703.14	12	\$ 842.88	9	\$ 589.95	6	\$ 493.08	0	\$ -	0	\$ -	0	\$ -	\$ 27,652.98	\$ 2,212.24	\$ -	\$ 29,865.22	

# **T2 UTILITIES**

## **PROPOSAL**



January 15, 2026

Solis Engineering Co.  
Rick Solis  
Manager  
239 N. Church Ave.  
Tucson AZ, 85701  
Email : [rick.solis@solisengco.com](mailto:rick.solis@solisengco.com)  
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T2 UES, Inc. dba T2  
Utility Engineers  
4855 N. Shamrock PI  
Suite 109  
Tucson, AZ 85705  
520-225-8829  
[www.t2ue.com](http://www.t2ue.com)

RE: 24076PFC - Santa Cruz River: Drexel to Valencia  
East Bank Restoration  
Subsurface Utility Engineering (SUE)  
T2ue Proposal No. 16104-25-0166 Revision 1

Dear Mr. Solis,

We at T2 UES, Inc. dba T2 Utility Engineers (herein referred to as T2ue) would like to thank you for the opportunity to propose on this exciting project. Our experience providing subsurface utility engineering for State DOTs, counties, municipalities, and various public works departments will enable us to successfully complete this utility investigation and meet the program and project goals. The combination of our resources and experience will provide you with the confidence that T2ue is the right choice to complete the project on time and on budget. For more information, please visit [www.T2ue.com](http://www.T2ue.com)

This proposal has been prepared for the Pima County Flood Control District Santa Cruz River: Drexel to Valencia East Bank Restoration project in Tucson, Arizona. Our Scope of Services is further detailed in the project understanding section of this proposal. We have provided you with a Cost-Plus Fixed Fee to complete the specific items described within the Scope of Services. We respectfully request any comments or questions you may have. Thank you again for this opportunity. We are committed to giving you the quality and service that you expect from T2ue.

#### PROJECT UNDERSTANDING & LIMITS OF INVESTIGATION

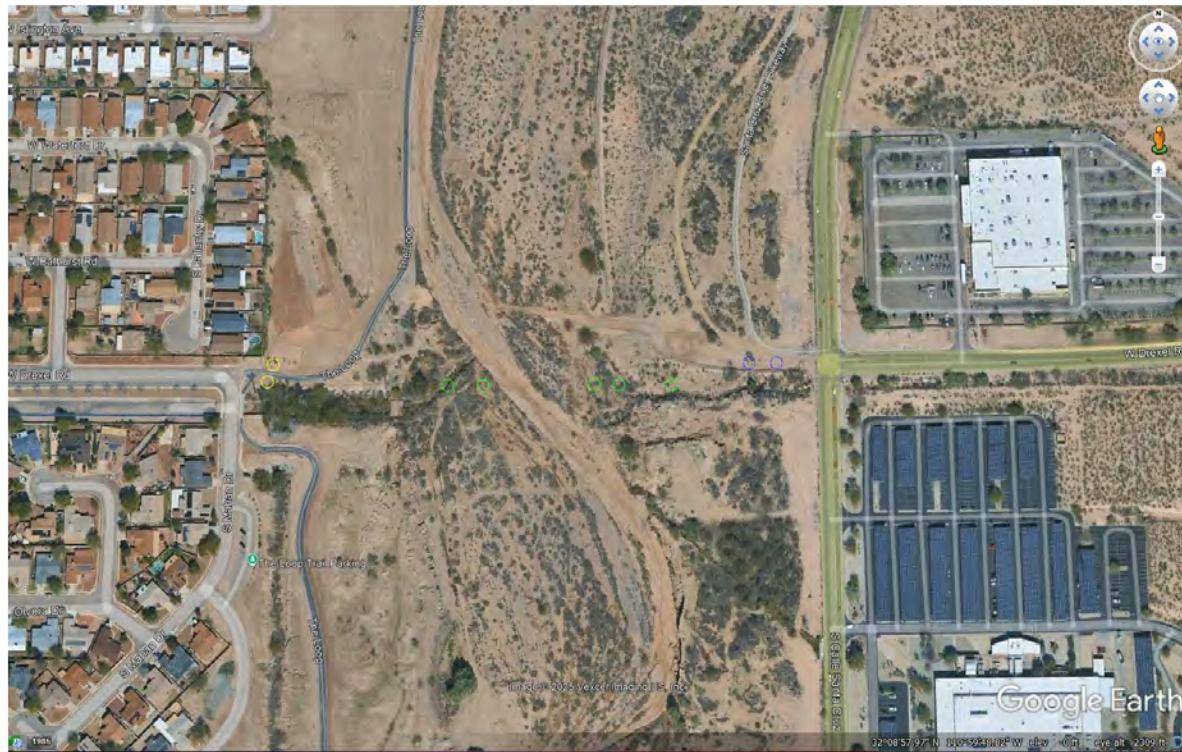
The T2ue team will provide Air-Vacuum Excavation Utility Test Holes (potholes) with Survey at up to 20 locations identified on the following Exhibit A.

#### SCOPE OF WORK

The T2ue team will conduct the following:

T2ue will provide 20 Air-Vacuum Excavation Utility Test Holes (potholes) with Survey as partially identified on the attached Exhibit A. The utility data obtained through our standard potholing procedure includes the depth, size and material composition of the utility exposed. Our standard potholing procedure includes backfill of excavated potholes using compacted native material, 12" x 12" pavement restoration using "Perma-Patch" brand permanent asphalt cold patch for test holes excavated in existing pavement, and 12" x 12" concrete restoration of potholes excavated in concrete sidewalks using bagged pre-mixed concrete. Per our discussion, it is anticipated that two of the requested test holes will be along the existing pavement of Drexel Rd. and will require CLSM Slurry Backfill, and Asphalt Coring/Reinstatement. It is understood that all of the remaining 18 utility test holes will be off road but some may require traffic shoulder work control.

#### EXHIBIT A – Partial Utility Test Hole Map



#### ASSUMPTIONS AND EXCLUSIONS

- As requested, survey of the test holes will be conducted by T2ue.
- If additional holes are required over and above the 20 holes scoped for this project, they will be done so on a separate task for a separate fee.
- This proposal is for excavation of 20 test holes, if ultimately less than four test holes are requested T2ue will prepare a new estimate based on Time and Materials.
- Prior to beginning the utility test hole work, T2ue will request a pdf plan set showing test hole locations identifying what utility is requested at each location.
- Each test hole will be assigned a unique ID number and will be marked for survey.
- Excavation in rock or excavation to a depth greater than 10 feet is considered beyond the scope of this proposal and can be estimated for the Client on a case-by-case basis.
- If test holes are located in sidewalk or concrete, there will be a per hole charge of \$125 per hole to excavate, jackhammer, and remove the existing concrete on the site, saw cut, and conduct 12" x 12" concrete restoration using bagged pre- mixed concrete. If full panel replacement is required for holes excavated in sidewalk or concrete, additional cost will be incurred, to be covered under a separate scope and fee.
- Test holes excavated in which no utility is found (Dry Test Holes) excavated over AZ811 marks of non-tonable utilities will be stopped at 2 hours per test hole and each hole excavated will be charged.
- Extra wide test holes (larger than 15 inches in width) will be considered two test holes.
- Test Holes in which two utilities are found at a separation of more than 15" on center will be billed as two separate test holes.
- Test Holes which are requested at locations of the crossing of two utilities, will be billed as two separate test holes when the overall hole width exceeds 15".

#### SCHEDULE

T2UE will work closely with the project team to provide deliverables in a timeframe consistent with the overall project schedule. For scheduling purposes please allow four weeks from NTP and receipt of applicable permits for utility test hole excavation and deliverable preparation.

#### DELIVERABLES

Pertinent utility test hole data will be presented in electronic format on our standard "Test Hole Data Summary" and individual "Test Hole Data Report" forms signed by a Professional Engineer licensed in the state of Arizona.

#### ESTIMATED FEE

For the services outlined, T2UE proposes compensation as outlined in the fee schedule below. T2UE will not exceed the estimated fee without prior authorization from Client. Monthly invoices will be prepared upon conclusion for the actual work completed up to the estimated budget amount. We appreciate this opportunity to provide professional SUE and Surveying services for this project. Should you have any questions or require additional information, please do not hesitate to call.

Sincerely,



Dan Padilla  
Senior Project Manager  
Phone: 520.770.0021  
Email: [dan.padilla@t2ue.com](mailto:dan.padilla@t2ue.com)

**FEE SCHEDULE**  
**24076PFC - DREXEL TO VALENCIA EAST BANK RESTORATION**  
**Design Engineering Services**  
**T2 Utility Engineers**  
**January 23, 2026**

**Direct Labor:**

<u>Classification</u>	<u>Estimated Hours</u>	<u>Direct+OH Labor Rate</u>	<u>Direct Labor Rate</u>	<u>Loaded Labor Costs</u>
Principal	0	\$293.27	\$102.10	\$0.00
Project Engineer	2	\$181.36	\$63.14	\$362.72
Project Manager	12	\$169.10	\$58.87	\$2,029.20
Survey Manager	4	\$158.44	\$55.16	\$633.76
SUE Manager	10	\$149.36	\$52.00	\$1,493.60
Two Person Survey Crew*	10	\$180.85	\$62.96	\$1,808.50
Two Person Designating Crew*	0	\$170.68	\$59.42	\$0.00
Two Person Vacuum Excavation Crew*	40	\$136.41	\$47.49	\$5,456.40
CADD	10	\$101.63	\$35.38	\$1,016.30
Clerical / Admin	4	\$80.71	\$28.10	\$322.84
<b>Direct Labor (DL)</b>	<b>92</b>			<b>\$13,123.32</b>

**Estimated Direct Expenses**

<u>Type</u>	<u>Amount</u>	<u>Unit Costs</u>	<u>Cost</u>
*Survey Truck & Equipment	10	\$36.00	\$360.00
*Designating Truck & Equipment	0	\$31.00	\$0.00
*Vacuum Excavating Truck & Equipment	40	\$77.00	\$3,080.00

<b>Total of Direct Expenses</b>	<b>\$3,440.00</b>
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**Estimated Outside Expenses**

<u>Firm</u>	<u>Amount</u>	<u>Unit Costs</u>	<u>Cost</u>
Permits (Invoiced at Cost)	1	\$500.00	\$500.00
Traffic Control (Invoiced at Cost)	1	\$1,915.56	\$1,915.56
Asphalt Coring (Invoiced at Cost)	1	\$700.00	\$700.00
CLSM Backfill (Invoiced at Cost)	1	\$529.69	\$529.69

<b>Total of Outside Expenses</b>	<b>\$3,645.25</b>
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<b>Fixed Fee (8% of Labor Cost)</b>	<b>\$1,049.87</b>
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<b>Total Estimated Costs</b>	<b>\$21,258.44</b>
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(\*) Vehicle Rates (To be used in Conjunction with Survey, Designating, & Vacuum Excavating Crew Rates Above). T2 owns this equipment and separates its vehicle rate from OH. T2 charges per their yearly audited rates.

Task No.	Description	No. of Sheets	Total Hours	Principal	\$ 293.27	Project Engineer	\$ 181.36	Project Manager	\$ 169.10	Survey Manager	\$ 158.44	SUE Manager	\$ 149.36	Two Person Survey Crew*	\$ 180.85	Two Person Designating Crew*	\$ 170.68	Two Person Vacuum Excavation Crew*	\$ 136.41	CADD	\$ 101.63	Clerical / Admin	\$ 80.71	Total Labor Cost	8% Profit	Sub-Consultant Amount	Total Task			
				Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour	Per / Hour					
				Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount	Hours	Amount					
<b>2.0</b>	<b>PROJECT COORDINATION</b>		<b>6</b>	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>6</b>	\$ 1,014.60	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>\$ 1,014.60</b>	<b>\$ 81.17</b>	\$ -	<b>\$ 1,095.77</b>	
1.1.1	Project Coordination (General)		4	0	\$ -	0	\$ -	4	\$ 676.40	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 676.40	\$ 54.11			
1.1.2	Final Design Kick-off Meeting		1	0	\$ -	0	\$ -	1	\$ 169.10	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 169.10	\$ 13.53			
1.1.3	Field Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
1.1.4	Stakeholder / Progress Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
1.1.5	Public Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
1.1.6	Consultant Team Meeting		1	0	\$ -	0	\$ -	1	\$ 169.10	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ 169.10	\$ 13.53			
1.1.7	Utility Coordination Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
1.1.8	Drexel Bridge Coordination Meeting		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
1.2	Project Schedule		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
1.3	Public Participation		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
1.5	Miscellaneous Project Graphics		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
1.6	Drexel Road Bridge Coordination		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
<b>6.0</b>	<b>UTILITIES COORDINATION</b>		<b>80</b>	<b>0</b>	\$ -	<b>2</b>	\$ 362.72	<b>4</b>	\$ 676.40	<b>4</b>	\$ 633.76	<b>10</b>	\$ 1,493.60	<b>10</b>	\$ 1,808.50	<b>0</b>	\$ -	<b>40</b>	\$ 5,456.40	<b>10</b>	\$ 1,016.30	<b>0</b>	\$ -	<b>\$ 11,447.68</b>	<b>\$ 915.81</b>	<b>\$ 7,085.25</b>	<b>\$ 19,448.74</b>			
6.1	Utility Coordination		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
6.2	Cultural Clearance for Potholing		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	\$ -	\$ -			
6.3	Utility Potholing		80	0	\$ -	2	\$ 362.72	4	\$ 676.40	4	\$ 633.76	10	\$ 1,493.60	10	\$ 1,808.50	0	\$ -	40	\$ 5,456.40	10	\$ 1,016.30	0	\$ -	\$ 11,447.68	\$ 915.81	\$ 7,085.25				
<b>13.0</b>	<b>PROJECT MANAGEMENT</b>		<b>6</b>	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>2</b>	\$ 338.20	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>0</b>	\$ -	<b>4</b>	\$ 322.84	<b>\$ 661.04</b>	<b>\$ 52.88</b>	<b>\$ -</b>	<b>\$ 713.92</b>			
13.1	Perform invoicing, budget review, and subconsultant invoice review		6	0	\$ -	0	\$ -	2	\$ 338.20	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	4		\$ 661.04	\$ 52.88					
13.2	Change Control Log		0	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -	0	\$ -					
	<b>Totals</b>		<b>92</b>	<b>0</b>	\$ -	<b>2</b>	\$ 362.72	<b>12</b>	\$ 2,029.20	<b>4</b>	\$ 633.76	<b>10</b>	\$ 1,493.60	<b>10</b>	\$ 1,808.50	<b>0</b>	\$ -	<b>40</b>	\$ 5,456.40	<b>10</b>	\$ 1,016.30	<b>4</b>	\$ 322.84	\$ 13,123.32	\$ 1,049.87	\$ 7,085.25	\$ 21,258.44			



**Quail Construction LLC**  
5555 East Van Buren Street, #240  
Phoenix, AZ 85008  
928-314-1212

**Estimate**

Estimate Date	Estimate ID
1/15/2026	T201152026FC

Valid Through: 2/14/2026

AZROC: A-GEN 331707

**T2 Utilities Engineers**

Dan Padilla  
19621 N. 23rd Dr. Ste. 150  
Phoenix, AZ 85027  
Phone: 520-225-8829

Email: dan.padilla@t2ue.com

**Job Name: Drexel Rd & Calle Santa Cruz.**

**Job Location:**

Drexel Rd & Calle Santa Cruz.  
Tucson  
Estimate Created By: F.Cavazos  
Estimated Days: 1

Item Description	Price	UOM	Qty/Day	Days	Total Qty.	Total
1 man / 1 truck - Setup / Maintain / Pickup - Shift Closure	\$65.00	Per Hour	8	1	8	\$520.00
Shift Equipment Only - Up to 500ft *	\$30.00	Per Day	1	1	1	\$30.00
1 Man / 1 Truck - Deliver / Setup / Reset - Shoulder Closure up to 500ft	\$65.00	Per Hour	1.75	1	1.75	\$113.75
1 Man / 1 Truck - Takedown / Pickup / Return - Shoulder Closure up to 500ft	\$65.00	Per Hour	1.75	1	1.75	\$113.75
Shoulder Closure Equipment Only - Up to 500ft *	\$20.00	Per Day	2	3	6	\$120.00
1 man / 1 truck - Onsite / Shadow Crew-1	\$65.00	Per Hour	2	1	2	\$130.00
1 man / 1 truck - Onsite / Shadow Crew-2	\$65.00	Per Hour	2	1	2	\$130.00
Trip Surcharge - Metro	\$20.00	Per Each	26	1	26	\$520.00
Traffic Control Plan (Per Sheet) *	\$65.00	Per Each	2	1	2	\$130.00
Sand Bag (filled) *	\$2.25	Per Each	22	1	22	\$49.50
Flag *	\$2.75	Per Each	10	1	10	\$27.50

Note: The \* indicates taxable items.

<b>EQUIPMENT</b>	\$150.00
<b>ONE TIME CHARGES</b>	\$207.00
<b>LABOR</b>	\$1,527.50
<b>SUBTOTAL</b>	\$1,884.50
<b>SALES TAX (8.7%)</b>	\$31.06
<b>ESTIMATE TOTAL</b>	<b>\$1,915.56</b>

**Scope:** • Hourly labor is charged port to port from branch location to job site.  
• Rental periods are defined as: Day = 24 Hours, Week = 7 Days, Month = 28 Days.

**Included:** • All rental periods are based on calendar days.  
• This quote is based on the information provided at this time. All final billing will be based on the actual equipment and Labor required to perform the project..  
• QUAIL CONSTRUCTION -  
TERM: NET 30 DAY. ALL PAST DUE INVOICES SUBJECT TO A 1.5% PER MONTH SERVICE CHARGE(AFTER 30 DAYS). IN THE EVENT OF ANY DISPUTES AS TO NON-PAYMENT OF ANY INVOICE THE PREVAILING PARTY SHALL BE ENTITLED TO AN AWARD OF ACTUAL ATTORNEYS' FEES AND COSTS.  
• A 3% transaction fee will apply to all credit card payments.

Initials \_\_\_\_\_ Page 1 of 2

**Estimate For: T2 Utilities Engineers - Quote ID: T201152026FC (cont.)**

**Included:**

- QUAIL CONSTRUCTION - TERMS & CONDITIONS.  
APPLICABLE SALES TAX WILL BE ADDED TO ALL BILLING. ALL BILLING WILL BE BASED ON ACTUAL QUANTITIES USED. NET 30 DAYS ON RENTAL AND SALES ITEMS WITH APPROVED CREDIT. ITEMS NOT LISTED ON THE SCHEDULE WILL BE QUOTED UPON REQUEST. EQUIPMENT COVERED UNDER THIS QUOTE IS IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS. 1 HOUR LABOR MINIMUM WILL BE BILLED TO ALL TRIPS TO CONSTRUCTION PROJECTS. ALL RENTAL ITEMS ARE BILLED PER CALENDAR DAY, NOT PER WORKING SHIFT.

Accepted By:

1/15/2026

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F.Cavazos

Date

Quail Construction LLC

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Signature

---

Date

Visit Our Website at [quailcorp.com](http://quailcorp.com)

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Print Name

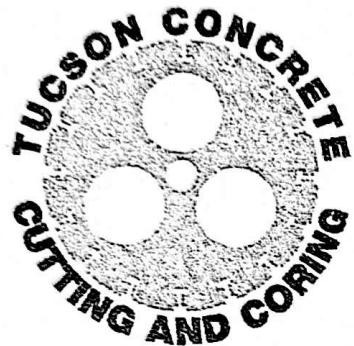
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Title

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Company

Tucson Concrete Cutting & Coring  
662 S Beverly Avenue  
Tucson, Az 85711  
(520) 747-7364



**Job Proposal**

Date: 1-15-26

To: Dan Padilla  
TZ Utility Engineers

Job: Pima County, Flood Control Project  
Drexel + Calle Santa Cruz

Tucson Concrete Cutting hereby proposes to furnish all material, labor and equipment required for the completion of the following:

2 Hours of work, core drilling 2- 10" cores in pavement with wet vac @ 350.00 per hour

For the sum of:

Seven Hundred

Dollars (\$ 700.00 )

Terms of payment:

This proposal may be withdrawn by Tucson Concrete Cutting and Coring if not accepted within \_\_\_\_ days.

Proposal submitted by

  
Dan Van Houten

Acceptance of proposal by:

Date:

Name: \_\_\_\_\_

Thank you for your business!

## Ready Mix Order Entry

File Edit Attributes (0)

New Copy Multi Copy Save Save and Close Find Schedule Other Email Back Cut Paste

Customer: <input checked="" type="checkbox"/> COD	Order: <input type="text"/>	Map Page: <input type="text"/>																																																																										
Phone: <input type="text"/>	Delivery Date: <input type="text"/> 1/16/2026 <input type="button"/> Fri	Zone: <input type="text"/> 0																																																																										
Name: <input type="text"/> T2 UTILITY ENGINEERS	Start Time: <input type="text"/> 08:42 <input type="button"/>	Sched Location: <input type="text"/> 003 - YARD 3																																																																										
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END OF EXHIBIT B - COMPENSATION SCHEDULE



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/27/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERs NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Professional Underwriters of AZ, Inc. P.O. Box 5419 Scottsdale AZ 85261-5419		CONTACT NAME: Jeff Gerrick PHONE (A/C, No, Ext): 480-483-0440 FAX (A/C, No): 480-948-7752 E-MAIL ADDRESS: jeff@prounderwriters.com
		INSURER(S) AFFORDING COVERAGE
		INSURER A : Hartford Underwriters Ins. Co. 30104
INSURED Solis Engineering Co., LLC 239 N. Church Ave. Tucson AZ 85701		INSURER B : Trav Cas&Surety Co America 31194
		INSURER C : Prop & Cas Ins Co of Hartford 34690
		INSURER D : Nutmeg Insurance Company 39608
		INSURER E :
		INSURER F :

## COVERAGES

CERTIFICATE NUMBER: 794646244

## REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS		
C	COMMERCIAL GENERAL LIABILITY  CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	Y	Y	59SBWBJ5A3W	10/30/2025	10/30/2026	EACH OCCURRENCE	\$ 1,000,000	
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 1,000,000	
							MED EXP (Any one person)	\$ 10,000	
							PERSONAL & ADV INJURY	\$ 1,000,000	
							GENERAL AGGREGATE	\$ 2,000,000	
							PRODUCTS - COMP/OP AGG	\$ 2,000,000	
OTHER:	\$								
D	AUTOMOBILE LIABILITY  ANY AUTO  OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	Y	Y	59UEGBF0312	9/13/2025	9/13/2026	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000	
							BODILY INJURY (Per person)	\$	
							BODILY INJURY (Per accident)	\$	
							PROPERTY DAMAGE (Per accident)	\$	
								\$	
C	UMBRELLA LIAB  EXCESS LIAB  DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	X	Y	59SBWBJ5A3W	10/30/2025	10/30/2026	EACH OCCURRENCE	\$ 2,000,000	
							AGGREGATE	\$ 2,000,000	
								\$ Follow Form	
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY  ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y / N	N / A	59WECAC3B3S	10/31/2025	10/31/2026	X PER STATUTE	OTH-ER	
							E.L. EACH ACCIDENT	\$ 500,000	
							E.L. DISEASE - EA EMPLOYEE	\$ 500,000	
							E.L. DISEASE - POLICY LIMIT	\$ 500,000	
B	Professional Liability  Pollution Liability		Y	107002249	10/30/2025	10/30/2026	Per Claim Annual Aggregate Per Claim	2,000,000 3,000,000 2,000,000	

## DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

RE: Contract No. PO2600002611, Project- Design Engineering Services: Drexel to Valencia East Bank Restoration  
Pima County, its departments, districts, boards, commissions, officers, officials, agents, employees and any other party required by contract are additional insured as indicated. Coverages afforded are primary and non-contributory basis. Waiver of subrogation included.

## CERTIFICATE HOLDER

## CANCELLATION

Pima County Procurement Department Design and Construction Division 150 W. Congress St., 5th Floor Tucson AZ 85701	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE  <i>Jeffrey D. Gerrick</i>

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Additional Insured for Commercial General Liability and Comprehensive Automobile Liability Endorsement Form attached.



PROCUREMENT DEPARTMENT

DESIGN & CONSTRUCTION DIVISION | 150 W. CONGRESS ST., 5<sup>TH</sup> FLOOR | TUCSON, AZ 85701

PHONE: 520-724-8161 | FAX: 520-724-3646

Insurance carrier verifies Pima County is named as Additional Insured to the Comprehensive Commercial General Liability policy AND the Comprehensive Automobile Liability policy referenced below, the County being added by ENDORSEMENT to the policies.

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Solis Engineering Co., LLC

Insured Firm

---

59SBWBJ5A3W & 59UEGBF0312

Policy Number

---

Hartford

Insurance Carrier

---



Authorized Carrier Signature

---

Jeffrey Gerrick

Printed Name

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1/28/2026

Date of Signature

NOTE: This document must be included with Insurance Certificates at time of signing contract or renewing contract.



## AMENDMENT OF OTHER INSURANCE CONDITION - PRIMARY OR PRIMARY AND NON-CONTRIBUTORY WHEN REQUIRED BY WRITTEN CONTRACT OR WRITTEN AGREEMENT

This endorsement modifies insurance provided under the following:

### UMBRELLA LIABILITY SUPPLEMENTAL POLICY

Except as otherwise stated in this endorsement, the terms and conditions of the Supplemental Policy apply.

**A. The following is added to Section C. WHO IS AN INSURED:**

Any person or organization with whom you agreed, because of a written contract, written agreement or because of a permit issued by a state or political subdivision, to provide insurance such as is afforded under this Supplemental Policy, but only with respect to your operations, "your work" or facilities owned or used by you.

**a. This provision does not apply:**

- (1) Unless the written contract or written agreement has been executed, or the permit has been issued prior to the "bodily injury", "property damage", or "personal and advertising injury"; and
  - (2) Unless the limits of liability specified in such written contract, written agreement or permit are greater than the limits shown for "underlying insurance"; or
  - (3) Beyond the period of time required by the written contract or written agreement.
- b. In no event shall any coverage afforded to any such person or organization apply to any claim or "suit" to which "underlying insurance" does not apply. Coverage provided by this Supplemental Policy for any such additional insured will follow the provisions, exclusions and limitations of the "underlying insurance".

**B. Solely as with respect to the insurance afforded to any person or organization qualifying as an additional insured under Section A. above, Paragraph 7. Other Insurance in Section E. CONDITIONS is deleted and replaced by the following:**

**7. Other Insurance**

- a. This Supplemental Policy shall apply in excess of all "underlying insurance" whether or not valid and collectible. It shall also apply in excess of other valid and collectible insurance (except other insurance purchased specifically to apply in excess of this insurance) which also applies to any loss for which insurance is provided by this Supplemental Policy.

These excess provisions apply, whether such other insurance is stated to be:

- (1) Primary;
- (2) Contributing;
- (3) Excess; or
- (4) Contingent.

- b. However, the following provisions apply to other insurance available to any person or organization qualifying as an additional insured under Section C. WHO IS AN INSURED, as amended by Section A. of this endorsement and who is also an additional insured under the Business Liability Coverage scheduled in the "underlying insurance":

**(1) Primary Insurance When Required By Contract**

If you have agreed in a written contract, written agreement or permit to provide primary insurance to the additional insured, then, after the "underlying insurance" is exhausted, this insurance will be primary. If other insurance is also primary, we will share with all that other insurance by the method described in Paragraph c. below.



**(2) Primary And Non-Contributory To Other Insurance When Required By Contract**

If you have agreed in a written contract, written agreement, or permit to provide insurance to the additional insured that is primary and non-contributory, then, after the "underlying insurance" is exhausted, this insurance will be primary and we will not seek contribution from the additional insured's own insurance.

Paragraphs (1) and (2) do not apply to other insurance on which the additional insured qualifies as an additional insured pursuant to the terms of that policy or has been added as an additional insured by endorsement.

**c. Method Of Sharing**

If all of the other insurance permits contribution by equal shares, we will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first.

If any of the other insurance does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

**C. Paragraph D.6. How Limits Apply To Additional Insured** is deleted and replaced by the following:

**How Limits Apply To Additional Insureds**

- a. If you have agreed in a written contract, written agreement or permit that another person or organization be added as an additional insured on the Business Liability Coverage scheduled in the "underlying insurance" and such person or organization also qualifies as an additional insured under this Supplemental Policy, the most we will pay on behalf of such insured is the lesser of:
  - (1) The limits of insurance specified in the written contract, written agreement or permit, less any amounts payable by any "underlying insurance"; or
  - (2) The Limits of Insurance shown in the Umbrella Liability Supplemental Policy Declarations.
- b. Such amount shall be a part of and not in addition to the Limits of Insurance shown in the Umbrella Liability Supplemental Policy Declarations and described in other provisions of this Section.



**(2) Premises Rented To You**

That is fire, lightning or explosion insurance for premises rented to you or temporarily occupied by you with permission of the owner;

**(3) Tenant Liability**

That is insurance purchased by you to cover your liability as a tenant for "property damage" to premises rented to you or temporarily occupied by you with permission of the owner;

**(4) Aircraft, Auto Or Watercraft**

If the loss arises out of the maintenance or use of aircraft, "autos" or watercraft to the extent not subject to Exclusion **g.** of Section **B.** Exclusions.

**(5) Property Damage To Borrowed Equipment Or Use Of Elevators**

If the loss arises out of "property damage" to borrowed equipment or the use of elevators to the extent not subject to Exclusion **k.** of Section **B.** Exclusions.

**(6) When You Are Added As An Additional Insured To Other Insurance**

That is other insurance available to you covering liability for damages arising out of the premises or operations, or products and completed operations, for which you have been added as an additional insured by that insurance; or

**(7) When You Add Others As An Additional Insured To This Insurance**

That is other insurance available to an additional insured.

However, the following provisions apply to other insurance available to any person or organization who is an additional insured under this Coverage Part:

**(a) Primary Insurance When Required By Contract**

This insurance is primary if you have agreed in a written contract, written agreement or permit that this insurance be primary. If other insurance is also primary, we will share with all that other insurance by the method described in **c.** below.

**(b) Primary And Non-Contributory To Other Insurance When Required By Contract**

If you have agreed in a written contract, written agreement or permit that this insurance is primary and non-contributory with the additional insured's own insurance, this insurance is primary and we will not seek contribution from that other insurance.

Paragraphs **(a)** and **(b)** do not apply to other insurance to which the additional insured has been added as an additional insured.

When this insurance is excess, we will have no duty under this Coverage Part to defend the insured against any "suit" if any other insurer has a duty to defend the insured against that "suit". If no other insurer defends, we will undertake to do so, but we will be entitled to the insured's rights against all those other insurers.

When this insurance is excess over other insurance, we will pay only our share of the amount of the loss, if any, that exceeds the sum of:

- (1)** The total amount that all such other insurance would pay for the loss in the absence of this insurance; and
- (2)** The total of all deductible and self-insured amounts under all that other insurance.

We will share the remaining loss, if any, with any other insurance that is not described in this Excess Insurance provision and was not bought specifically to apply in excess of the Limits of Insurance shown in the Declarations of this Coverage Part.

**c. Method Of Sharing**

If all the other insurance permits contribution by equal shares, we will follow this method also. Under this approach, each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first.



If any of the other insurance does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

## 7. Transfer Of Rights Of Recovery Against Others To Us

### a. Transfer Of Rights Of Recovery

If the insured has rights to recover all or part of any payment, including Supplementary Payments, we have made under this Coverage Part, those rights are transferred to us. The insured must do nothing after loss to impair them. At our request, the insured will bring "suit" or transfer those rights to us and help us enforce them. This condition does not apply to Medical Expenses Coverage.

### b. Waiver Of Rights Of Recovery (Waiver Of Subrogation)

If the insured has waived any rights of recovery against any person or organization for all or part of any payment, including Supplementary Payments, we have made under this Coverage Part, we also waive that right, provided the insured waived their rights of recovery against such person or organization in a contract, agreement or permit that was executed prior to the injury or damage.

## F. LIABILITY AND MEDICAL EXPENSES DEFINITIONS

1. "Advertisement" means a notice that is broadcast or published to the general public or specific market segments about your goods, products or services for the purpose of attracting customers or supporters. For the purpose of this definition:

- a. Notices that are published include material placed on the Internet or on similar electronic means of communication; and
- b. Regarding web sites, only that part of a web site that is about your goods, products or services for the purpose of attracting customers or supporters is considered an advertisement.

2. "Advertising idea" means any idea for an "advertisement".

3. "Asbestos hazard" means an exposure or threat of exposure to the actual or alleged properties of asbestos and includes the mere presence of asbestos in any form.

4. "Auto" means:

- a. A land motor vehicle, trailer or semi-trailer designed for travel on public roads, including any attached machinery or equipment; or
- b. Any other land vehicle that is subject to a compulsory or financial responsibility law or other motor vehicle insurance or motor vehicle registration law where it is licensed or principally garaged.

However, "auto" does not include "mobile equipment".

5. "Bodily injury" means physical:

- a. Injury;
- b. Sickness; or
- c. Disease

sustained by a person and, if arising out of the above, mental anguish or death at any time.

6. "Coverage territory" means:

- a. The United States of America (including its territories and possessions), Puerto Rico and Canada;
- b. International waters or airspace, but only if the injury or damage occurs in the course of travel or transportation between any places included in a. above;
- c. All other parts of the world if the injury or damage arises out of:
  - (1) Goods or products made or sold by you in the territory described in a. above;
  - (2) The activities of a person whose home is in the territory described in a. above, but is away for a short time on your business; or



## BLANKET ADDITIONAL INSURED BY CONTRACT

This endorsement modifies insurance provided under the following:

### BUSINESS LIABILITY COVERAGE FORM

Except as otherwise stated in this endorsement, the terms and conditions of the Policy apply.

**A. The following is added to Section C. WHO IS AN INSURED:**

**Additional Insureds When Required By Written Contract, Written Agreement Or Permit**

The person(s) or organization(s) identified in Paragraphs a. through f. below are additional insureds when you have agreed, in a written contract or written agreement, or when required by a written permit issued by a state or governmental agency or subdivision or political subdivision that such person or organization be added as an additional insured on your Coverage Part, provided the injury or damage occurs subsequent to the execution of the contract or agreement, or the issuance of the permit.

A person or organization is an additional insured under this provision only for that period of time required by the contract, agreement or permit.

However, no such person or organization is an additional insured under this provision if such person or organization is included as an additional insured by any other endorsement issued by us and made a part of this Coverage Part.

The insurance afforded to such additional insured will not be broader than that which you are required by the contract, agreement, or permit to provide for such additional insured.

The insurance afforded to such additional insured only applies to the extent permitted by law.

The limits of insurance that apply to additional insureds are described in Section **D. LIABILITY AND MEDICAL EXPENSES LIMITS OF INSURANCE**. How this insurance applies when other insurance is available to an additional insured is described in the Other Insurance Condition in Section **E. LIABILITY AND MEDICAL EXPENSES GENERAL CONDITIONS**.

**a. Vendors**

Any person(s) or organization(s) (referred to below as vendor), but only with respect to "bodily injury" or "property damage" arising out of "your products" which are distributed or sold in the regular course of the vendor's business and only if this Coverage Part provides coverage for "bodily injury" or "property damage" included within the "products-completed operations hazard".

**(1) The insurance afforded to the vendor is subject to the following additional exclusions:**

This insurance does not apply to:

- (a)** "Bodily injury" or "property damage" for which the vendor is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the vendor would have in the absence of the contract or agreement;
- (b)** Any express warranty unauthorized by you;
- (c)** Any physical or chemical change in the product made intentionally by the vendor;
- (d)** Repackaging, except when unpacked solely for the purpose of inspection, demonstration, testing, or the substitution of parts under instructions from the manufacturer, and then repackaged in the original container;
- (e)** Any failure to make such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products;
- (f)** Demonstration, installation, servicing or repair operations, except such operations performed at the vendor's premises in connection with the sale of the product;



- (g) Products which, after distribution or sale by you, have been labeled or relabeled or used as a container, part or ingredient of any other thing or substance by or for the vendor; or
  - (h) "Bodily injury" or "property damage" arising out of the sole negligence of the vendor for its own acts or omissions or those of its employees or anyone else acting on its behalf. However, this exclusion does not apply to:
    - (i) The exceptions contained in Paragraphs (d) or (f); or
    - (ii) Such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products.
- (2) This insurance does not apply to any insured person or organization from whom you have acquired such products, or any ingredient, part or container, entering into, accompanying or containing such products.

**b. Lessors Of Equipment**

- (1) Any person or organization from whom you lease equipment; but only with respect to their liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your maintenance, operation or use of equipment leased to you by such person or organization.
- (2) With respect to the insurance afforded to these additional insureds, this insurance does not apply to any "occurrence" which takes place after you cease to lease that equipment.

**c. Lessors Of Land Or Premises**

- (1) Any person or organization from whom you lease land or premises, but only with respect to liability arising out of the ownership, maintenance or use of that part of the land or premises leased to you.
- (2) With respect to the insurance afforded to these additional insureds, this insurance does not apply to:
  - (a) Any "occurrence" which takes place after you cease to lease that land or be a tenant in that premises; or
  - (b) Structural alterations, new construction or demolition operations performed by or on behalf of such person or organization.

**d. Architects, Engineers Or Surveyors**

- (1) Any architect, engineer, or surveyor, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:
  - (a) In connection with your premises;
  - (b) In the performance of your ongoing operations performed by you or on your behalf; or
  - (c) In connection with "your work" and included within the "products-completed operations hazard", but only if:
    - (i) The written contract, written agreement or permit requires you to provide such coverage to such additional insured; and
    - (ii) This Coverage Part provides coverage for "bodily injury" or "property damage" included within the "products-completed operations hazard".

- (2) With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:

This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of or the failure to render any professional services, including:

- (i) The preparing, approving, or failure to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders, designs or drawings and specifications; or
- (ii) Supervisory, surveying, inspection, architectural or engineering activities.

This exclusion applies even if the claims allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by an insured, if the "bodily injury", "property



damage", or "personal and advertising injury" arises out of the rendering of or the failure to render any professional service.

**e. State Or Governmental Agency Or Subdivision Or Political Subdivision Issuing Permit**

- (1) Any state or governmental agency or subdivision or political subdivision, but only with respect to operations performed by you or on your behalf for which the state or governmental agency or subdivision or political subdivision has issued a permit.
- (2) With respect to the insurance afforded to these additional insureds, this insurance does not apply to:
  - (a) "Bodily injury", "property damage" or "personal and advertising injury" arising out of operations performed for the federal government, state or municipality; or
  - (b) "Bodily injury" or "property damage" included within the "products-completed operations hazard".

**f. Any Other Party**

- (1) Any other person or organization who is not in one of the categories or classes listed above in Paragraphs **a.** through **e.** above, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:
  - (a) In the performance of your ongoing operations performed by you or on your behalf;
  - (b) In connection with your premises owned by or rented to you; or
  - (c) In connection with "your work" and included within the "products-completed operations hazard", but only if:
    - (i) The written contract, written agreement or permit requires you to provide such coverage to such additional insured; and
    - (ii) This Coverage Part provides coverage for "bodily injury" or "property damage" included within the "products-completed operations hazard".
- (2) With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:

This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

- (a) The preparing, approving, or failure to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders, designs or drawings and specifications; or
- (b) Supervisory, surveying, inspection, architectural or engineering activities.

This exclusion applies even if the claims allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by an insured, if the "bodily injury", "property damage", or "personal and advertising injury" arises out of the rendering of or the failure to render any professional service described in Paragraphs **f.(2)(a)** or **f.(2)(b)** above.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

## COMMERCIAL AUTOMOBILE BROAD FORM ENDORSEMENT

This endorsement modifies insurance provided under the following:

### BUSINESS AUTO COVERAGE FORM

To the extent that the provisions of this endorsement provide broader benefits to the "insured" than other provisions of the Coverage Form, the provisions of this endorsement apply.

#### 1. BROAD FORM INSURED

**Paragraph .1. - WHO IS AN INSURED - of Section II - Liability Coverage is amended to add the following:**

**d. Subsidiaries and Newly Acquired or Formed Organizations**

The Named Insured shown in the Declarations is amended to include:

- (1) Any legal business entity other than a partnership or joint venture, formed as a subsidiary in which you have an ownership interest of more than 50% on the effective date of the Coverage Form. However, the Named Insured does not include any subsidiary that is an "insured" under any other automobile policy or would be an "insured" under such a policy but for its termination or the exhaustion of its Limit of Insurance.
- (2) Any organization that is acquired or formed by you and over which you maintain majority ownership. However, the Named Insured does not include any newly formed or acquired organization:
  - (a) That is a partnership or joint venture,
  - (b) That is an "insured" under any other policy,
  - (c) That has exhausted its Limit of Insurance under any other policy, or
  - (d) 180 days or more after its acquisition or formation by you, unless you have given us notice of the acquisition or formation.

Coverage does not apply to "bodily injury" or "property damage" that results from an "accident" that occurred before you formed or acquired the organization.

**e. Employees as Insureds**

- (1) Any "employee" of yours while using a covered "auto" you don't own, hire or borrow in your business or your personal affairs.

**f. Lessors as Insureds**

- (1) The lessor of a covered "auto" while the "auto" is leased to you under a written agreement if:
  - (a) The agreement requires you to provide direct primary insurance for the lessor and
  - (b) The "auto" is leased without a driver.

Such a leased "auto" will be considered a covered "auto" you own and not a covered "auto" you hire.

**g. Additional Insured if Required by Contract**

- (1) When you have agreed, in a written contract or written agreement, that a person or organization be added as an additional insured on your business auto policy, such person or organization is an "insured", but only to the extent such person or organization is liable for "bodily injury" or "property damage" caused by the conduct of an "insured" under paragraphs a. or b. of Who Is An Insured with regard to the ownership, maintenance or use of a covered "auto."

The insurance afforded to any such additional insured applies only if the "bodily injury" or "property damage" occurs:

- (a) During the policy period, and
- (b) Subsequent to the execution of such written contract, and

- (c) Prior to the expiration of the period of time that the written contract requires such insurance be provided to the additional insured.

**(2) How Limits Apply**

If you have agreed in a written contract or written agreement that another person or organization be added as an additional insured on your policy, the most we will pay on behalf of such additional insured is the lesser of:

- (a) The limits of insurance specified in the written contract or written agreement; or
- (b) The Limits of Insurance shown in the Declarations.

Such amount shall be a part of and not in addition to Limits of Insurance shown in the Declarations and described in this Section.

**(3) Additional Insureds Other Insurance**

If we cover a claim or "suit" under this Coverage Part that may also be covered by other insurance available to an additional insured, such additional insured must submit such claim or "suit" to the other insurer for defense and indemnity.

However, this provision does not apply to the extent that you have agreed in a written contract or written agreement that this insurance is primary and non-contributory with the additional insured's own insurance.

**(4) Duties in The Event Of Accident, Claim, Suit or Loss**

If you have agreed in a written contract or written agreement that another person or organization be added as an additional insured on your policy, the additional insured shall be required to comply with the provisions in LOSS CONDITIONS 2. - DUTIES IN THE EVENT OF ACCIDENT, CLAIM , SUIT OR LOSS – OF SECTION IV – BUSINESS AUTO CONDITIONS, in the same manner as the Named Insured.

**2. Primary and Non-Contributory if Required by Contract**

Only with respect to insurance provided to an additional insured in A.1.g. - Additional Insured If Required by Contract, the following provisions apply:

**(1) Primary Insurance When Required By Contract**

This insurance is primary if you have agreed in a written contract or written agreement that this insurance be primary. If other insurance is also primary, we will share with all that other insurance by the method described in Other Insurance 5.d.

**(2) Primary And Non-Contributory To Other Insurance When Required By Contract**

If you have agreed in a written contract or written agreement that this insurance is primary and non-contributory with the additional insured's own insurance, this insurance is primary and we will not seek contribution from that other insurance.

Paragraphs **(1)** and **(2)** do not apply to other insurance to which the additional insured has been added as an additional insured.

When this insurance is excess, we will have no duty to defend the insured against any "suit" if any other insurer has a duty to defend the insured against that "suit". If no other insurer defends, we will undertake to do so, but we will be entitled to the insured's rights against all those other insurers.

When this insurance is excess over other insurance, we will pay only our share of the amount of the loss, if any, that exceeds the sum of:

- (1) The total amount that all such other insurance would pay for the loss in the absence of this insurance; and
- (2) The total of all deductible and self-insured amounts under all that other insurance.

We will share the remaining loss, if any, by the method described in SECTION IV- Business Auto Conditions, B. General Conditions, Other Insurance 5.d.

**3. AUTOS RENTED BY EMPLOYEES**

Any "auto" hired or rented by your "employee" on your behalf and at your direction will be considered an "auto" you hire.

The SECTION IV- Business Auto Conditions, B. General Conditions, 5. OTHER INSURANCE Condition is amended by adding the following:

- e. If an "employee's" personal insurance also applies on an excess basis to a covered "auto" hired or rented by your "employee" on your behalf and at your direction, this insurance will be primary to the "employee's" personal insurance.

#### **4. AMENDED FELLOW EMPLOYEE EXCLUSION**

EXCLUSION 5. - FELLOW EMPLOYEE - of SECTION II - LIABILITY COVERAGE does not apply if you have workers' compensation insurance in-force covering all of your "employees".

Coverage is excess over any other collectible insurance.

#### **5. HIRED AUTO PHYSICAL DAMAGE COVERAGE**

If hired "autos" are covered "autos" for Liability Coverage and if Comprehensive, Specified Causes of Loss, or Collision coverages are provided under this Coverage Form for any "auto" you own, then the Physical Damage Coverages provided are extended to "autos" you hire or borrow, subject to the following limit.

The most we will pay for "loss" to any hired "auto" is:

- (1) \$100,000;
- (2) The actual cash value of the damaged or stolen property at the time of the "loss"; or
- (3) The cost of repairing or replacing the damaged or stolen property,

whichever is smallest, minus a deductible. The deductible will be equal to the largest deductible applicable to any owned "auto" for that coverage. No deductible applies to "loss" caused by fire or lightning. Hired Auto Physical Damage coverage is excess over any other collectible insurance. Subject to the above limit, deductible and excess provisions, we will provide coverage equal to the broadest coverage applicable to any covered "auto" you own.

We will also cover loss of use of the hired "auto" if it results from an "accident", you are legally liable and the lessor incurs an actual financial loss, subject to a maximum of \$1000 per "accident".

This extension of coverage does not apply to any "auto" you hire or borrow from any of your "employees", partners (if you are a partnership), members (if you are a limited liability company), or members of their households.

#### **6. PHYSICAL DAMAGE - ADDITIONAL TEMPORARY TRANSPORTATION EXPENSE COVERAGE**

Paragraph A.4.a. of SECTION III - PHYSICAL DAMAGE COVERAGE is amended to provide a limit of \$50 per day and a maximum limit of \$1,000.

#### **7. LOAN/LEASE GAP COVERAGE**

Under SECTION III - PHYSICAL DAMAGE COVERAGE, in the event of a total "loss" to a covered "auto", we will pay your additional legal

obligation for any difference between the actual cash value of the "auto" at the time of the "loss" and the "outstanding balance" of the loan/lease.

"Outstanding balance" means the amount you owe on the loan/lease at the time of "loss" less any amounts representing taxes; overdue payments; penalties, interest or charges resulting from overdue payments; additional mileage charges; excess wear and tear charges; lease termination fees; security deposits not returned by the lessor; costs for extended warranties, credit life Insurance, health, accident or disability insurance purchased with the loan or lease; and carry-over balances from previous loans or leases.

#### **8. AIRBAG COVERAGE**

Under Paragraph B. EXCLUSIONS - of SECTION III - PHYSICAL DAMAGE COVERAGE, the following is added:

The exclusion relating to mechanical breakdown does not apply to the accidental discharge of an airbag.

#### **9. ELECTRONIC EQUIPMENT - BROADENED COVERAGE**

a. The exceptions to Paragraphs B.4 - EXCLUSIONS - of SECTION III - PHYSICAL DAMAGE COVERAGE are replaced by the following:

Exclusions 4.c. and 4.d. do not apply to equipment designed to be operated solely by use of the power from the "auto's" electrical system that, at the time of "loss", is:

- (1) Permanently installed in or upon the covered "auto";
- (2) Removable from a housing unit which is permanently installed in or upon the covered "auto";
- (3) An integral part of the same unit housing any electronic equipment described in Paragraphs (1) and (2) above; or
- (4) Necessary for the normal operation of the covered "auto" or the monitoring of the covered "auto's" operating system.

b. Section III, Physical Damage Coverage, Limit of Insurance, Paragraph C.2. is amended to add the following:

\$1,500 is the most we will pay for "loss" in any one "accident" to all electronic equipment (other than equipment designed solely for the reproduction of sound, and accessories used with such equipment) that reproduces, receives or transmits audio, visual or data signals which, at the time of "loss", is:

- (1) Permanently installed in or upon the covered "auto" in a housing, opening or other location that is not normally used by the "auto" manufacturer for the installation of such equipment;
  - (2) Removable from a permanently installed housing unit as described in Paragraph 2.a. above or is an integral part of that equipment; or
  - (3) An integral part of such equipment.
- c. For each covered "auto", should loss be limited to electronic equipment only, our obligation to pay for, repair, return or replace damaged or stolen electronic equipment will be reduced by the applicable deductible shown in the Declarations, or \$250, whichever deductible is less.

## 10. EXTRA EXPENSE - BROADENED COVERAGE

Under Paragraph A. - COVERAGE - of SECTION III - PHYSICAL DAMAGE COVERAGE, we will pay for the expense of returning a stolen covered "auto" to you.

## 11. GLASS REPAIR - WAIVER OF DEDUCTIBLE

Under Paragraph D. - DEDUCTIBLE - of SECTION III - PHYSICAL DAMAGE COVERAGE, the following is added:

No deductible applies to glass damage if the glass is repaired rather than replaced.

## 12. TWO OR MORE DEDUCTIBLES

Under Paragraph D. - DEDUCTIBLE - of SECTION III - PHYSICAL DAMAGE COVERAGE, the following is added:

If another Hartford Financial Services Group, Inc. company policy or coverage form that is not an automobile policy or coverage form applies to the same "accident", the following applies:

- (1) If the deductible under this Business Auto Coverage Form is the smaller (or smallest) deductible, it will be waived;
- (2) If the deductible under this Business Auto Coverage Form is not the smaller (or smallest) deductible, it will be reduced by the amount of the smaller (or smallest) deductible.

## 13. AMENDED DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS

The requirement in LOSS CONDITIONS 2.a. - DUTIES IN THE EVENT OF ACCIDENT, CLAIM, SUIT OR LOSS - of SECTION IV - BUSINESS AUTO CONDITIONS that you must notify us of an "accident" applies only when the "accident" is known to:

- (1) You, if you are an individual;

- (2) A partner, if you are a partnership;
- (3) A member, if you are a limited liability company; or
- (4) An executive officer or insurance manager, if you are a corporation.

## 14. UNINTENTIONAL FAILURE TO DISCLOSE HAZARDS

If you unintentionally fail to disclose any hazards existing at the inception date of your policy, we will not deny coverage under this Coverage Form because of such failure.

## 15. HIRED AUTO - COVERAGE TERRITORY

SECTION IV, BUSINESS AUTO CONDITIONS, PARAGRAPH B. GENERAL CONDITIONS, 7. - POLICY PERIOD, COVERAGE TERRITORY - is added to include the following:

- (6) For short-term hired "autos", the coverage territory with respect to Liability Coverage is anywhere in the world provided that if the "insured's" responsibility to pay damages for "bodily injury" or "property damage" is determined in a "suit," the "suit" is brought in the United States of America, the territories and possessions of the United States of America, Puerto Rico or Canada or in a settlement we agree to.

## 16. WAIVER OF SUBROGATION

Paragraph 5. TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US - of SECTION IV - BUSINESS AUTO CONDITIONS A. Loss Conditions is amended by adding the following:

We waive any right of recovery we may have against any person or organization with whom you have a written contract that requires such waiver because of payments we make for damages under this Coverage Form.

## 17. RESULTANT MENTAL ANGUISH COVERAGE

The definition of "bodily injury" in SECTION V - DEFINITIONS, C. is replaced by the following:

"Bodily injury" means bodily injury, sickness or disease sustained by any person, including mental anguish or death resulting from any of these.

## 18. EXTENDED CANCELLATION CONDITION

Paragraph 2. of the COMMON POLICY CONDITIONS - CANCELLATION - applies except as follows:

If we cancel for any reason other than nonpayment of premium, we will mail or deliver to the first Named Insured written notice of cancellation at least 60 days before the effective date of cancellation.

## **19. HYBRID, ELECTRIC, OR NATURAL GAS VEHICLE PAYMENT COVERAGE**

In the event of a total loss to a "non-hybrid" auto for which Comprehensive, Specified Causes of Loss, or Collision coverages are provided under this Coverage Form, then such Physical Damage Coverages are amended as follows:

- a. If the auto is replaced with a "hybrid" auto or an auto powered solely by electricity or natural gas, we will pay an additional 10%, to a maximum of \$2,500, of the "non-hybrid" auto's actual cash value or replacement cost, whichever is less,
- b. The auto must be replaced and a copy of a bill of sale or new lease agreement received by us within 60 calendar days of the date of "loss,"
- c. Regardless of the number of autos deemed a total loss, the most we will pay under this Hybrid, Electric, or Natural Gas Vehicle Payment Coverage provision for any one "loss" is \$10,000.

For the purposes of the coverage provision,

- a. A "non-hybrid" auto is defined as an auto that uses only an internal combustion engine to move the auto but does not include autos powered solely by electricity or natural gas.

- b. A "hybrid" auto is defined as an auto with an internal combustion engine and one or more electric motors; and that uses the internal combustion engine and one or more electric motors to move the auto, or the internal combustion engine to charge one or more electric motors, which move the auto.

## **20. VEHICLE WRAP COVERAGE**

In the event of a total loss to an "auto" for which Comprehensive, Specified Causes of Loss, or Collision coverages are provided under this Coverage Form, then such Physical Damage Coverages are amended to add the following:

In addition to the actual cash value of the "auto", we will pay up to \$1,000 for vinyl vehicle wraps which are displayed on the covered "auto" at the time of total loss. Regardless of the number of autos deemed a total loss, the most we will pay under this Vehicle Wrap Coverage provision for any one "loss" is \$5,000. For purposes of this coverage provision, signs or other graphics painted or magnetically affixed to the vehicle are not considered vehicle wraps.



**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**WAIVER OF OUR RIGHT TO RECOVER  
FROM OTHERS ENDORSEMENT**

**Policy Number:** 59 WEC AC3B3S

**Endorsement Number:**

**Effective Date:** 10/31/25      Effective hour is the same as stated on the Information Page of the policy.

**Named Insured and Address:** Solis Engineering Co LLC  
5325 S CIVANO BLVD  
TUCSON AZ 85747

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule.

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

**SCHEDULE**

Any person or organization for whom you are required by contract or agreement to obtain this waiver from us. Endorsement is not applicable in KY, NH, NJ or for any MO construction risk

Countersigned by \_\_\_\_\_

Authorized Representative

**Form WC 00 03 13** Printed in U.S.A.

**Process Date:** 09/21/25

**Policy Expiration Date:** 10/31/26

# EXTENSION SCHEDULE OF UNDERLYING INSURANCE



This extension schedule forms a part of the Supplemental Policy.

An "X" marked in a box indicates the corresponding coverage is provided in the "underlying insurance".

**Please note the Maintenance Of Underlying Insurance condition in the Umbrella Liability Supplemental Policy.**

**A. (X) Business Liability**

Carrier, Policy Number and Policy Period: Property and Casualty Insurance Company of Hartford  
59 SBW BJ5A3W  
10/30/2025 To 10/30/2026

	Type of Coverage	Applicable Limits
(X)	Liability and Medical Expenses	\$1,000,000
(X)	Personal and Advertising Injury	\$1,000,000
(X)	Products/Completed Operations Aggregate	\$2,000,000
(X)	General Aggregate	\$2,000,000
(X)	Damages To Premises Rented To You	\$1,000,000
( )	Hired Auto and Non-Owned Auto Liability	Any One Premises

**B. ( ) Liquor Liability**

Carrier, Policy Number and Policy Period:

	Type of Coverage	Applicable Limits
	Liquor Liability	

# EXTENSION SCHEDULE OF UNDERLYING INSURANCE (Continued)



**POLICY NUMBER: 59 SBW BJ5A3W**

**C. (X) Comprehensive Automobile Liability**

Carrier, Policy Number and Policy Period: Nutmeg Insurance Company  
59UEGBF0312  
09/13/2025 To 09/13/2026

**Type of Coverage**

(X) Owned Autos (X) Non-Owned Autos (X) Hired Autos

**Applicable Limits**

Bodily Injury Liability  
Each Person  
Each Accident

Property Damage Liability  
Each Accident

Bodily Injury and Property Damage Liability Combined

\$1,000,000 Each Person  
\$1,000,000 Each Accident

**Type of Coverage**

( ) Uninsured Motorist ( ) Underinsured Motorist

**Applicable Limits**

Each Accident  
Each Occurrence

Each Person  
Each Accident

# EXTENSION SCHEDULE OF UNDERLYING INSURANCE (Continued)



**POLICY NUMBER: 59 SBW BJ5A3W**

## D. (X) Employer's Liability

Carrier, Policy Number and Policy Period: Hartford Underwriters Insurance Company  
59WECAC3B3S  
10/31/2025 To 10/31/2026

Type of Coverage	Applicable Limits	
Employers Liability	\$500,000	Each Accident*
	\$500,000	Each Employee by Disease*
	\$500,000	Total Policy by Disease*

\*In any jurisdiction where the amount of Employers Liability Coverage afforded by the underlying insurer is by law unlimited, the limit stated does not apply and the policy of which this extension schedule forms a part shall afford no insurance with respect to Employers Liability in such jurisdiction.

# EXTENSION SCHEDULE OF UNDERLYING INSURANCE (Continued)



**POLICY NUMBER: 59 SBW BJ5A3W**

**E. ( ) Foreign Liability**

Carrier, Policy Number and Policy Period:

	<b>Type of Coverage</b>	<b>Applicable Limits</b>
( )	Foreign Commercial General Liability	
( )	Liability and Medical Expenses	Per Occurrence
( )	Personal And Advertising Injury	Per Person/Organization
( )	Products/Completed Operations Aggregate	Aggregate
( )	General Aggregate	Aggregate
( )	Damages To Premises Rented To You	Any One Premises
( )	Foreign Contingent Auto Liability	Each Accident
( )	Foreign Employers Liability	Each Accident* Each Employee by Disease* Total Policy by Disease*

\*In any jurisdiction where the amount of Employers Liability Coverage afforded by the underlying insurer is by law unlimited, the limit stated does not apply and the policy of which this extension schedule forms a part shall afford no insurance with respect to Employers Liability in such jurisdiction.